2014 FSR
OWNER'S MANUAL

TABLE OF CONTENTS

INTRODUCTION 2
- About off road, stunt, downhill and freeriding 2
- Service and modifications 2

BIKE SETUP SPECIFICATIONS 3
- Seatpost height 3
- Frame linkage assembly 3
- Down tube cable guide installation 3
- 142+ rear axle 3
- Accessories 3
- Front derailleur type and position 4

SWAT BIKE EQUIPMENT 4
- TCCT (Top Cap Chain Tool) 5
- EMT TOOL 6
- SWAT BOX 7

INTERNAL CABLE ROUTING 8

PF30 BOTTOM BRACKET ASSEMBLY 12
- Installing PF30 and PF30DH Bottom Bracket Cups 12
- Frame Preparation 12
- Installing the Bottom Bracket (73 x 46mm BB shell, press-in cups) 12
- Installing the Adapter Cups 13
- Mountain Crank Compatibility 13

FORK LENGTH SPECIFICATIONS 14

TORQUE SPECS 14

FRAME SPECIFICATIONS 15

ENDURO 29 CHAINRING SETUP 15

AUTOSAG AIR SHOCK SETUP 16
- Step 1: Setting Autosag 16
- Step 2: Adjusting rebound 16
- Step 3: Adjusting compression 16

SETUP DATA 16

AIR CHARTS 17

X-FUSION O2RL AIR SHOCK SETUP 17
- Step 1: Adjusting sag 17
- Step 2: Adjusting rebound 17
- Step 3: Adjusting compression 17

CANE CREEK DB AIR SHOCK SETUP 17

COIL SHOCK SETUP 18
- Step 1: Adjusting sag 18
- Step 2: Setting rebound 18
- Step 3: Setting compression 18
- Setting Cane Creek Double Barrel coil rebound and compression 18

SHOCK SETTINGS 19

CARBON FRAME INSTRUCTIONS 20
- Seatpost 20
- Bottom bracket 20
- Headset installation / removal 20

SPECIALIZED BICYCLE COMPONENTS
15130 Concord Circle, Morgan Hill, CA 95037 (408) 779-6229
0000017543_OM R2, 06/13

Please note all instructions are subject to change for improvement without notice.
Please visit www.specialized.com for periodic tech updates.
Feedback: techdocs@specialized.com

INTRODUCTION

Congratulations on your purchase and welcome to the finest line of suspension bikes available!

About Off Road, Stunt, Downhill and Freeriding

This manual is designed to be used in conjunction with the Bicycle Owner's Manual and owner's manuals supplied by the manufacturer of the front and rear suspension components. If you did not receive any of these manuals, download them from the Internet, contact your Authorized Specialized Dealer, or contact us by telephone. There may be more current manuals and technical information available. For the most current information, regularly check the Specialized web site or consult your Authorized Specialized Dealer. These manuals were written for an important reason: your safety while riding.

This manual contains many "Warnings" and "Cautions" concerning the consequences of failure to maintain or inspect your bicycle or of failure to follow safe cycling practices. The combination of the safety alert symbol and the word Warning indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death. The combination of the safety alert symbol and the word Caution indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or damage to your bicycle or a component. Because the consequences of not following a Warning usually include "you may lose control and fall," which could result in serious personal injury or death, we may not repeat this in conjunction with each Warning. Because it is impossible to anticipate every situation or condition which may occur, a practice or situation may be unsafe but not anticipated by this manual. So, don't forget to use your common sense.

WARNING! Make sure you have, review, and understand the warnings, instructions, and content of the manuals for your bicycle.

About off road, stunt, downhill and freeriding

Downhill racing, severe off road riding, jumping, and stunt riding is extremely dangerous. Some downhill racers and freeriders reach speeds similar to motorcycles, thus face similar risks and hazards. When engaging in these activities, you, your bicycle and safety equipment must be in perfect condition. We recommend that at all times you wear appropriate safety gear, such as an approved full face helmet, full finger gloves, and body armor.

Not every bicycle is built for every activity. Check with your Authorized Specialized Dealer to make sure you have the right equipment.

No bicycle is indestructible. Downhill racing, severe off road riding, jumping, and stunt riding increases the stress on every part of your bicycle. Frames or parts under high stress may fail, causing you to lose control or fall. Because of the risk involved, Specialized recommends that you conduct a thorough inspection before each ride. If you miss a jump, ditch your bike in mid crash, dump or launch your bike without you on it, inspect yourself for injury, then carefully inspect your bicycle for damage.

Here is what you should look for when you inspect your bicycle for this type of riding: bent or broken components, such as the handlebar, handlebar stem, seatpost, pedals; dents, cracks, scratches, deformation, or discoloration. Because damage may be internal and hidden, if any of these signs are present, stop riding until your bicycle has been thoroughly inspected by your Authorized Specialized Dealer.

WARNING! Although many catalogs, advertisements and articles about bicycling depict riders racing, jumping, riding hard off road, and/or stunt riding, this activity is extremely dangerous, increases the rider's risk of injury or death, and potentially increases the severity of any injury. The action depicted is being performed by experts with many years of training and experience. Even with that training and experience, cyclists who engage in such activity often get seriously injured. It is also foreseeable that during some jumps or stunts, and even some races, that the rider will exceed the design capacity of the frame or components, which may result in something on the bicycle bending or breaking. If a frame or component bends or breaks, such may lead to loss of control, serious personal injury or death.

As activities such as racing, jumping, severe off road riding, and stunt riding are extremely dangerous, SAFETY should always be the first consideration. Don't ride in the race, ride hard off road, try the jump, or do the stunt, ***UNLESS YOU CAN DO SO SAFELY.*** Here are some additional recommendations:

- Take lessons from a competent instructor first.
- Do jumps or stunts only in areas designated for this type of riding.
- Start with easy jumps and easy stunts first, and slowly develop skills before trying more dangerous jumps or stunts.
- Wear appropriate safety gear, such as a full face helmet, body armor, full finger gloves, etc.
- Make sure by checking with your Authorized Specialized Dealer that your bike is suitable for the kind of activity you intend to engage in.
- Constantly inspect your bicycle for signs of stress: cracks in the paint; dents; crushing or bending of the frame; bent components. Do not ride your bicycle if it shows such signs of stress.
- Do not seek to bend or break the frame or components. Remember, ***SAFETY FIRST!!!***

Understand and recognize that the stresses imposed on your bike by riding at speed, jumping or stunt riding may break or damage parts of the bicycle, which may result in loss of control, serious injury or death.

Specialized does not warrant the bicycle frame or components for such activities, and expressly disclaims all warranties, including the warranty of fitness for particular purpose and merchantability.

Stunt riding, severe off road riding, jumping, or riding downhill at speed is extremely dangerous, and the rider voluntarily assumes the risk that the bicycle frame and/or its components will bend or break, and voluntarily assumes the risk of injury or death.

Service and modifications

Technological advances have made bicycles and bicycle components more complex, and the pace of innovation is increasing. It is impossible for this manual or the accompanying manuals to provide all of the information required to properly repair and/or maintain your bicycle. In order to help minimize the chances of an injury, it is critical for you to have work performed by an Authorized Specialized Dealer.

WARNING! Service on Specialized bicycles requires special knowledge and tools. Specialized recommends that all service and repairs be performed by an Authorized Specialized Dealer.

Your bicycle has been engineered and tested with specific components and parts. Because of the great variety in these items, it is impossible for Specialized to test and approve of all possible combinations. Modifying the frame, fork, or any of the components may make your bike unsafe. For example, changing the front suspension on your bicycle may alter the steering characteristics and/or add stresses to the frame which have not been tested for. If you must replace any component, have this done by your Authorized Specialized Dealer.

WARNING! Never modify your frame or bicycle in any way. Do not sand, drill, fill, or remove parts. Do not install incompatible forks or suspension parts. An improperly modified frame, fork, or component, can cause you to lose control and fall.

CAUTION: Any modification of your frame, fork, or components means that your bike no longer meets our specifications and therefore voids your warranty.

BIKE SETUP SPECIFICATIONS

Seatpost height

SEATPOST MINIMUM INSERTION 1 **:** To prevent damage to the frame, it's important to have a minimum amount of seatpost in the seat tube.

Carbon frames:

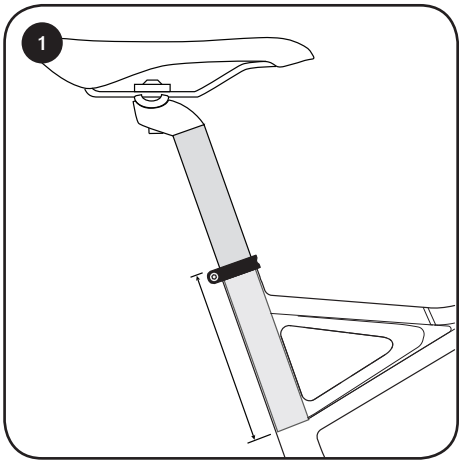
Small / Medium - 70mm insertion

Large / X-Large - 100mm insertion

Aluminum frames:

If you cannot see the seatpost tube through the seat tube hole, your seatpost is too far extended. If a greater saddle height is required, replace the seatpost with a longer one.

NOTE: When running a saddle in a low position, it's important to fully compress the rear end of the bicycle to ensure that the tire doesn't contact the saddle. This is especially important on longer travel bicycles.

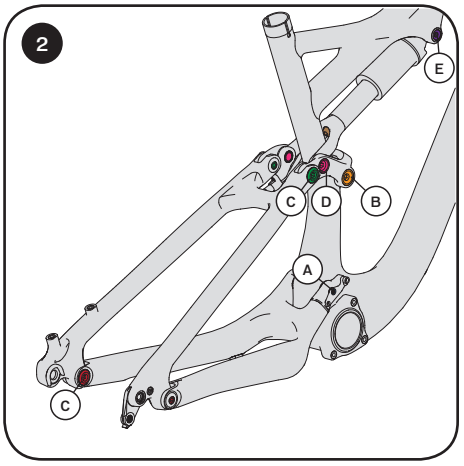


Frame linkage assembly

Specialized recommends following a specific order when assembling the rear triangle pivot locations of FSR suspension bike models 2.

A. Main pivot	**D.** Lower shock eye or yoke pivot
B. Main link pivot	**E.** Upper shock eye
C. Horst link or link @ seatstay pivot	

Assembling the upper or lower pivots of the seatstay as a last step makes it easier to align the parts and hold the washers in place.



Down tube cable guide installation

Certain Specialized FSRs are equipped with bolt-on down tube cable guides 3 under the down tube (3- or 4-cable bats). For proper housing placement and function, the hydraulic rear brake housing goes in the larger (non-drive-side) inner slot, while the gear cables (4mm only) go on the outside.

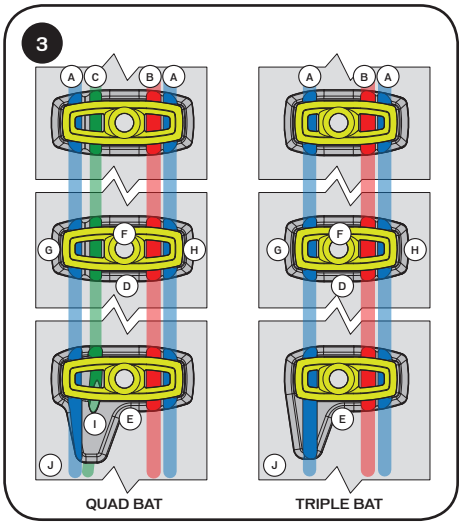
Telescoping seatposts with internal routing require the 4-cable bats, with the cable (4mm only) going in the narrower (drive-side) inner slot.

A. Blue: Gear (narrow outer slots)	**F.** Triple or Quad bat alloy holder
B. Red: Brake (larger inner slot)	**G.** Drive-side
C. Green: Seatpost (narrower inner slot)	**H.** Non-drive-side
D. Triple or Quad bat rubber base (standard)	**I.** Seatpost housing entry port
E. Triple or Quad bat rubber base (extended)	**J.** Down tube

NOTE: Stumpjumper Carbon / Enduro models use 2 x (D) and 1 x (E). Stumpjumper Alloy /Camber Alloy models use 3 x (D).

Do not overtighten the guide bolts! Too much pressure can squeeze the cable housings, creating friction and poor shifting for the cables.

Demo and Status models: The housings are routed on top of the down tube.



142+ rear axle

- Certain Specialized bike models are equipped with a 142+ rear axle system, which requires the use of a proprietary Specialized 142+ wheel, or a 142mm compatible wheel. For additional information regarding compatibility, please refer to the Roval Hub Compatibility Guide at www.specialized.com.

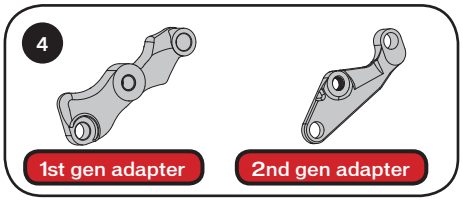
Accessories

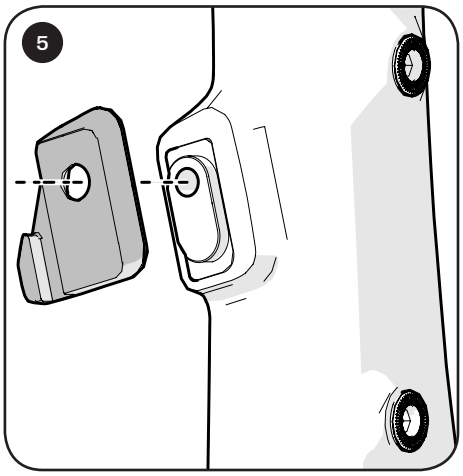
- Specialized offers replacement chainstay protectors for most FSR models, available through your Authorized Specialized Dealer.

Front derailleur type and position

MODEL	ADAPTER (fig.4)	SHIMANO DERAILLEUR	SRAM DERAILLEUR
EPIC (except WC)	*See fig.5	High Direct Mount	
CAMBER	2nd Gen	38-40t: E2, 42/44t: E	S3
SAFIRE	1st Gen	38-40t: E2, 40/42/44t: E	S1
STUMPJUMPER	2nd Gen	38-40t: E2, 42/44t: E	S3
ENDURO 26	--	38-40t: E2, 42/44t: E	S3
ENDURO 29	--	--	A3
RUMOR	2nd Gen	38-40t: E2, 42/44t: E	S3

- Shimano derailleurs are equipped with high-low height adjuster chips. Place the chips in the position that optimizes the spacing relative to the chainring size.
- Enduro 29 models are compatible only with the SRAM A3 MDM front derailleur (model # 00-7618-017-000 - FD MDM 2x10 38/36 BLK DP).
- Epic (non-WC models) are equipped with a fixed frame mount (fig.5), which accepts either a Shimano or SRAM high mount derailleur.
- Carbon Epic models require the additional slotted bracket that goes between the frame and the frong derailleur (fig.5).





SWAT BIKE EQUIPMENT

Certain Specialized bikes are compatible with SWAT (Storage, Water, Air, Tools) components. The matrix below explains the compatibility between SWAT components and Specialized bikes.

SWAT consists of the following parts:

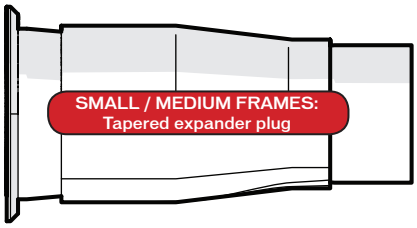
TCCT (Top Cap Chain Tool)	SWAT Box	EMT Tool

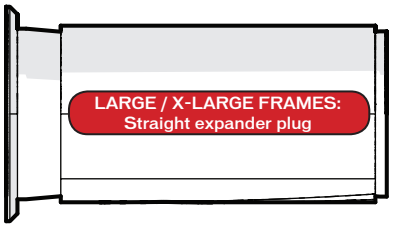
SWAT components can be assembled in stages:

STAGE 1	STAGE 2	STAGE 3
Any one SWAT component by itself	Any combination of two SWAT components (Mini Kit = TCCT + SWAT Tool)	All SWAT components together

2014 BIKE MODEL	MAX STAGE COMPATIBILITY	FULL SWAT EQUIPPED W/FRAME CRADLE	MINI KIT EQUIPPED
SW Epic FSR Carbon	Stage 3	✓	
Epic FSR Marathon Carbon	Stage 3	✓	
Epic FSR Expert Carbon	Stage 3	✓	
SW Camber FSR Carbon	Stage 2		✓
Camber FSR Expert Carbon	Stage 2		✓
Camber FSR Expert Carbon Evo	Stage 2		✓
SW SJ FSR 29	Stage 2		✓
SW SJ FSR 26 Evo	Stage 2		✓
SW SJ FSR 29 Evo	Stage 2		✓
SJ FSR Expert Carbon 29	Stage 2		✓
SJ FSR Expert Carbon Evo 26	Stage 2		✓
SJ FSR Expert Carbon Evo 29	Stage 2		✓

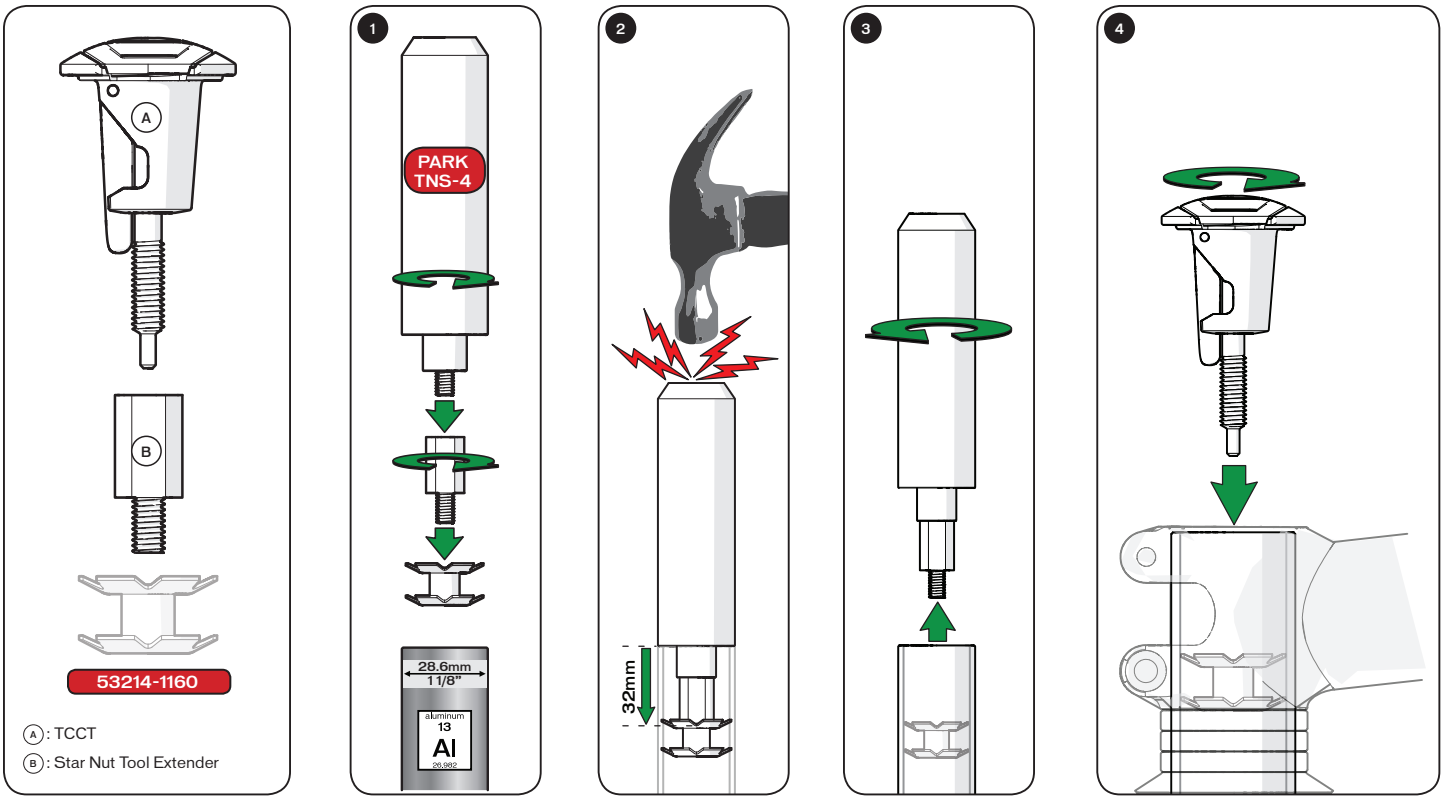
Specialized frames equipped with carbon steerer tubes: Small and medium frames have short steerer tubes that require a tapered expander plug.





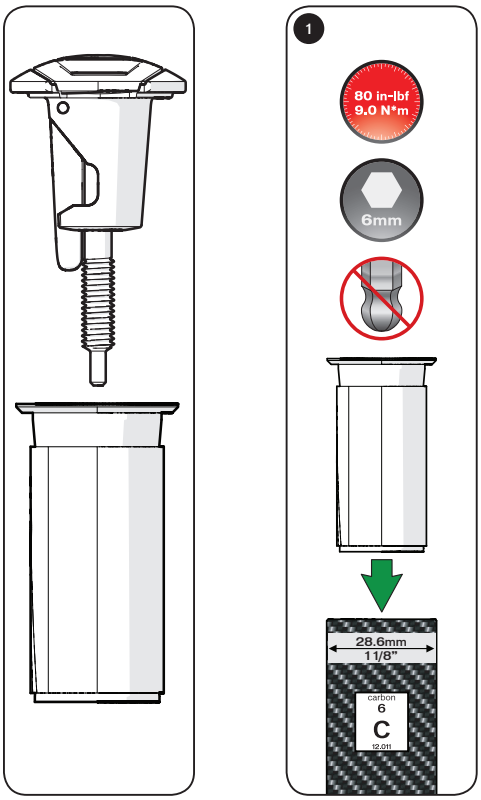
TCCT (Top Cap Chain Tool)

TCCT INTO ALLOY STEERER TUBE:

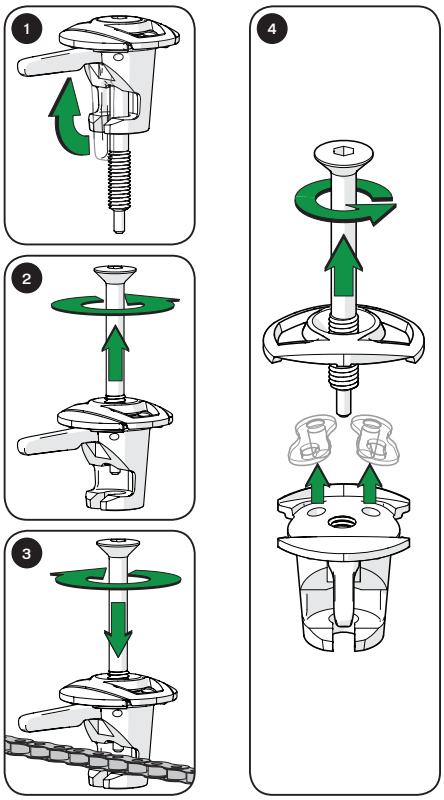


- Install the star nut, then thread the TCCT into the star nut. Tighten the bolt down to adjust headset tension just like a regular top cap.

TCCT INTO CARBON STEERER TUBE:



CHAIN TOOL USAGE:



- Install the expander plug, then thread the TCCT into the plug. Tighten the bolt down to adjust headset tension just like a regular top cap.

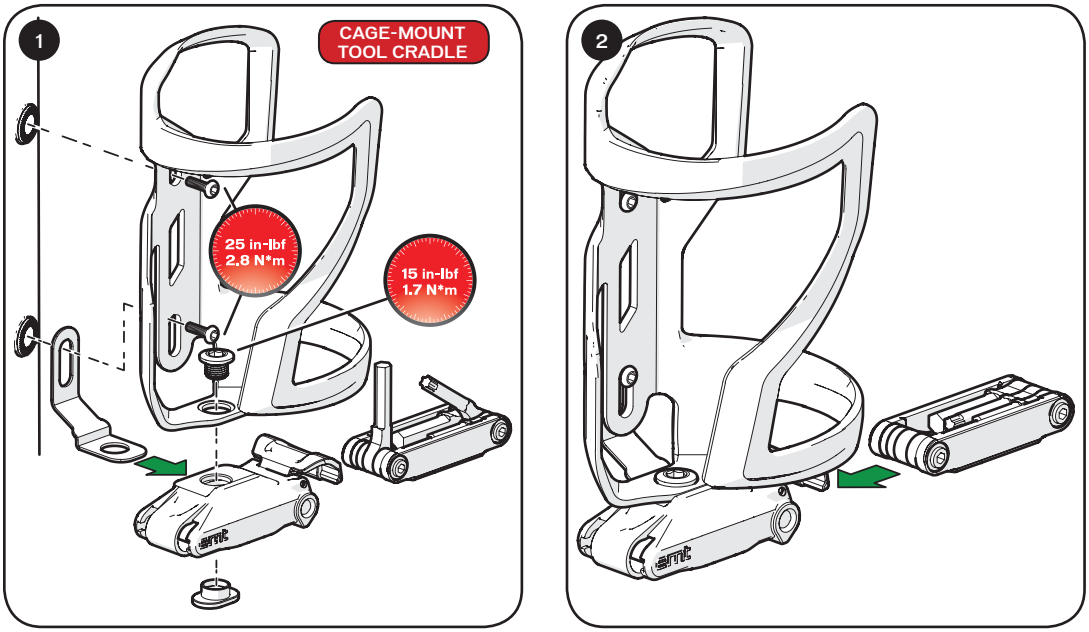
NOTE: The TCCT can be installed on additional bike models. Carbon steerer tubes require the TCCT-specific expander plug.

NOTE: The TCCT requires the use of a quick-connect link to re-attach the chain.

EMT TOOL

The EMT Tool can be mounted two ways:

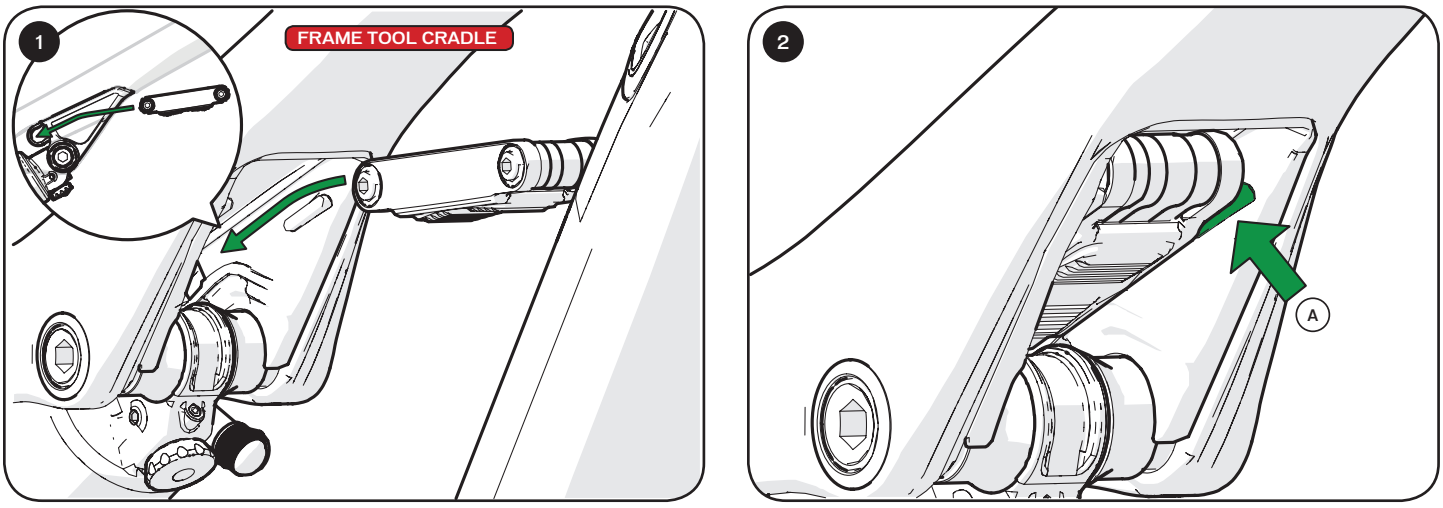
Directly to a Specialized Zee-Cage 2, with the Cage-Mount Tool cradle



- Install the metal bracket into the Cage-Mount Tool cradle (the round hole goes into the cradle, the oblong hole aligns with the Zee-Cage's lower frame mounting hole).
- Align the hole at the base of the Zee-Cage 2 over the hole in the Cage-Mount Tool cradle.
- Insert the T-Nut into the Frame Tool cradle from below.
- Thread the T-Bolt into the T-Nut. Torque the T-Bolt to 15 in-lbf (1.7 Nm).
- Install the EMT tool into the cradle.

NOTE: The EMT Tool with Cage-Mount Tool cradle and Zee-Xage 2 can be installed on many bike models. Some frames are not compatible due to interference between the frame and the Cage-Mount Tool cradle. Verify that the fit is unobstructed before installation.

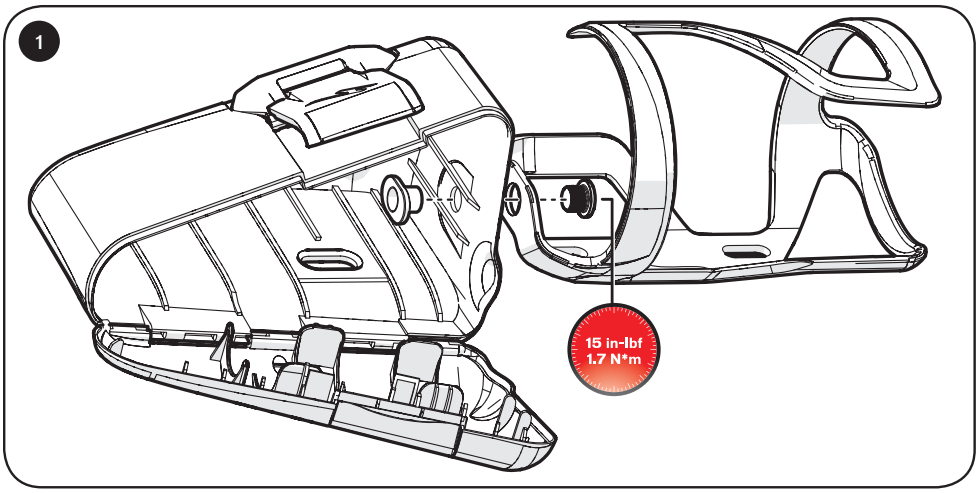
Directly into the Frame Tool cradle above the upper shock eye (2014 Epic Carbon frames only)



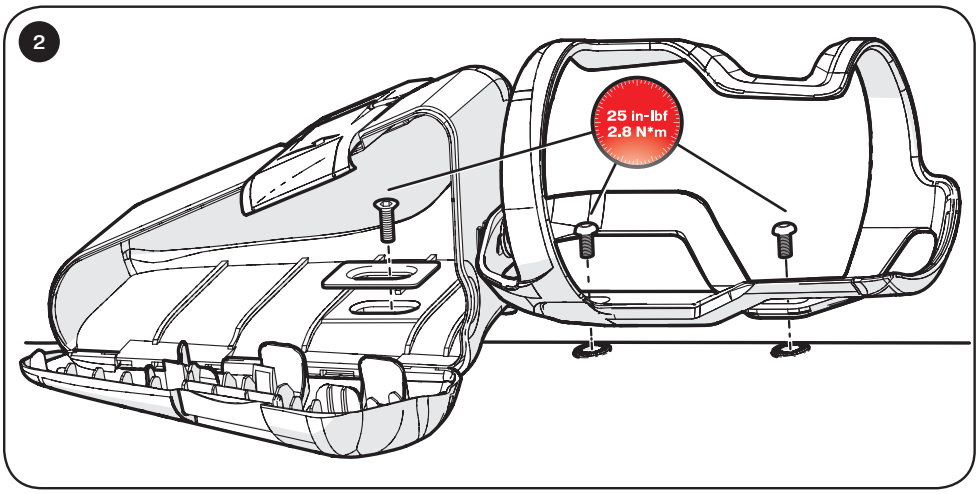
- Insert the tool into the cradle from an angle. As the tool slides into position, press the tool upward, making sure the tool's external pivot bolts are above the small retainer bumps (fig.2-A). Ensure that the tool clicks into place at the back, to hold it in snugly.
- Press up on the tool as it slides into the cradle until the tool clicks into place.
- To remove the tool, apply upward pressure with a finger or two and pull the tool toward the head tube.

SWAT BOX

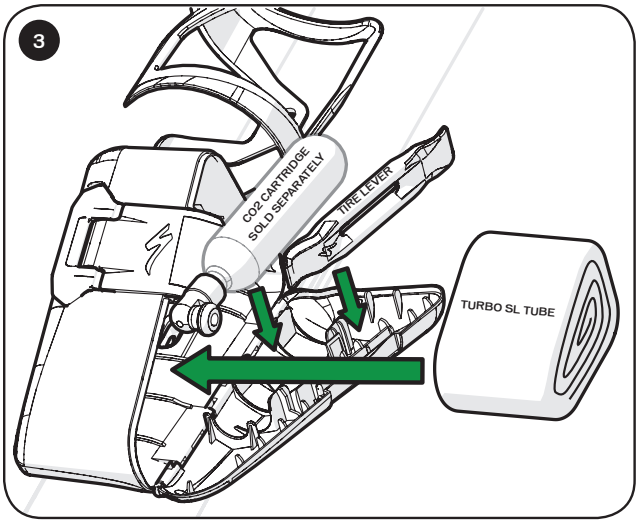
The SWAT Box is compatible only with frames equipped with a 3rd water bottle boss on the downtube (2014 Epic).



- Insert the T-Nut into the SWAT Box from the inside.
- Place the Zee-Cage 2 over the SWAT Box and align the hole at the base of the Zee-Cage 2 with the hole in the SWAT box. Torque the T-Bolt to 15 in-lbf (1.7 Nm).



- Bolt the assembly to the down tube (2 x Specialized low-profile M5 x 16mm water bottle bolts, 1 x recessed M5 x 18mm bolt). Torque the bolts to 25 in-lbf (2.8 Nm).



- Place a Specialized Turbo SL tube (29 x 1.75 - 2.40, with 40mm valve stem) into the box.
- Partially thread the Specialized CO2 head onto a 25g CO2 cartridge (cartridge sold separately).
- Click the CO2 head/cartridge assembly into its designated slot.
- Click the Specialized Tire Lever into its designated slot. The SWAT Box can only accept the Specialized Tire Lever.

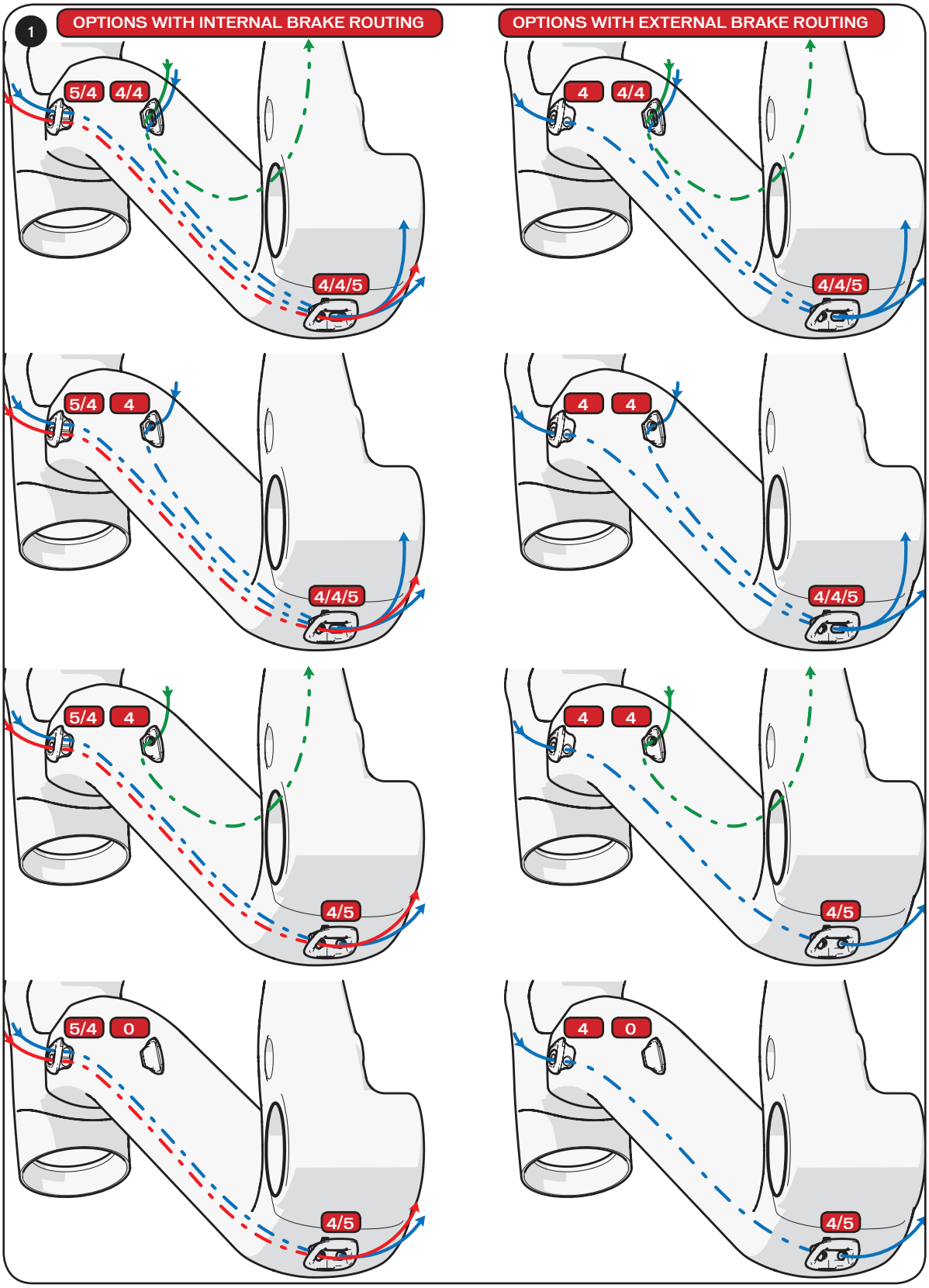
INTERNAL CABLE ROUTING

The following Internal Cable Routing (ICR) instructions are for 2014 Epic Carbon and Camber Carbon models only.

The ICR system has many different configurations, depending on the choices made regarding brakes, derailleurs and telescoping seatposts (Camber).

■ **Fig.1:** Decide which component configuration will be installed on the bike.

- Rear brake (RED): Internal or external?
- Front / Rear derailleur (BLUE): Yes or no? (Epic WC models do not have the option for a front derailleur.)
- Command Post IR (GREEN): Yes or no? (Epic models are not compatible with Command Post IR.)



NOTE: For optimal performance, Specialized suggests that the rear brake and rear derailleur housings enter the hood scoop on the non-drive-side of the frame, while the front derailleur and Command Post IR enter the hood scoop on the drive-side of the frame. However, these are only recommendations. The setup should be done based on the particular needs of the chosen components and rider preferences.

- **Fig.2:** Choose the entry and exit port hood scoops that match the desired component selection (fig.1). Each frame has its own predetermined selection of hood scoops installed at the factory, with the additional hood scoop options supplied in the parts bag.

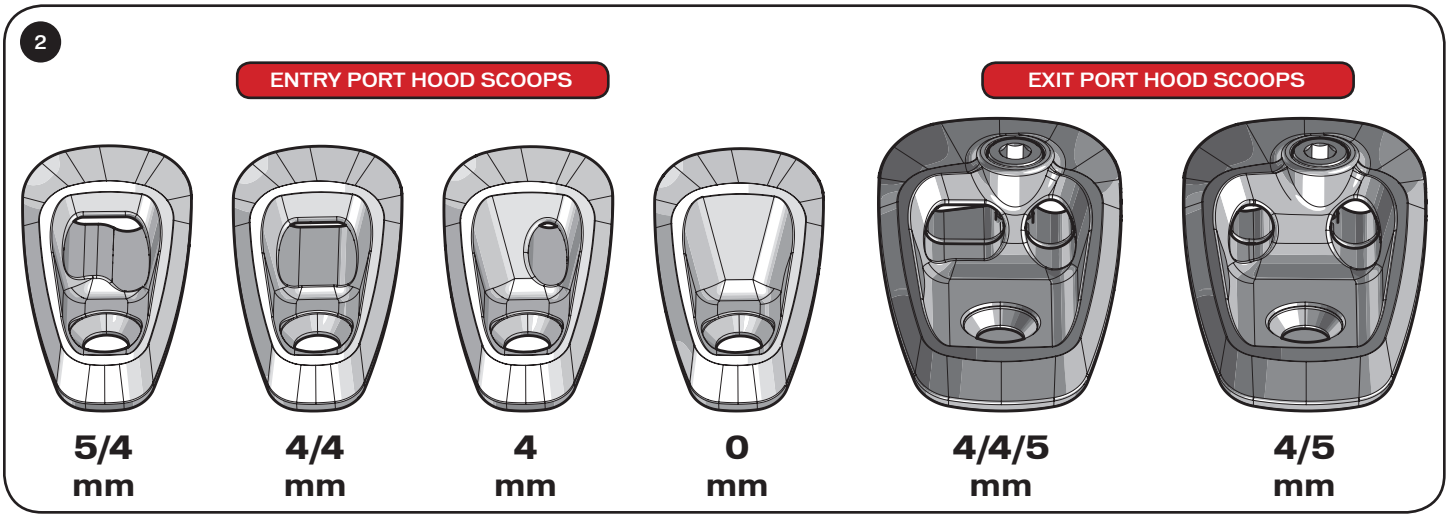
ENTRY PORT HOOD SCOOPS

- 5/4mm: Rear brake (5mm), derailleur (4mm)
- 4/4mm: Derailleurs and/or Command Post IR
- 4mm: Derailleur or Command Post IR
- 0mm: Blank

EXIT PORT HOOD SCOOPS

- 4/4/5mm: Derailleurs (4mm) and rear brake (5mm)
- 4/5mm: Rear derailleur (4mm) and rear brake (5mm)

2



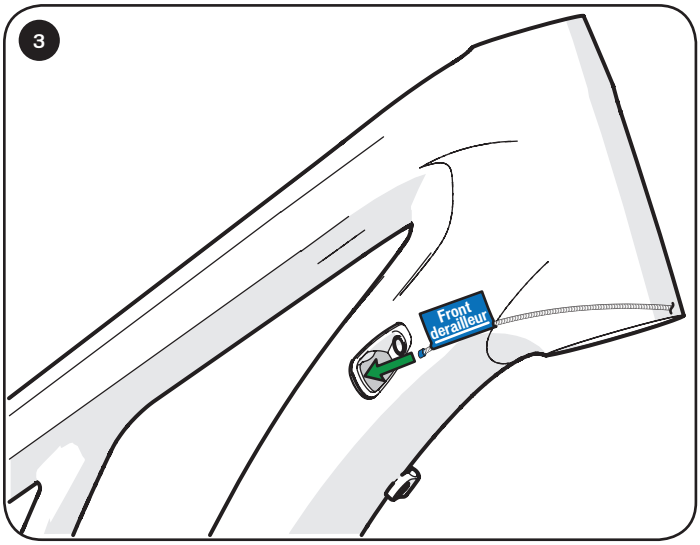
- Measure out the cable housing lengths for the chosen components (derailleur, Command Post) by running the housings from the handlebar controls, along the underside of the down tube and to the receiving component. Cut each length of cable housing with an additional few inches to accommodate changes during the final installation.

TECH TIP: To keep track of the intended component for each cable, mark each cable with a piece of tape for the correct component.

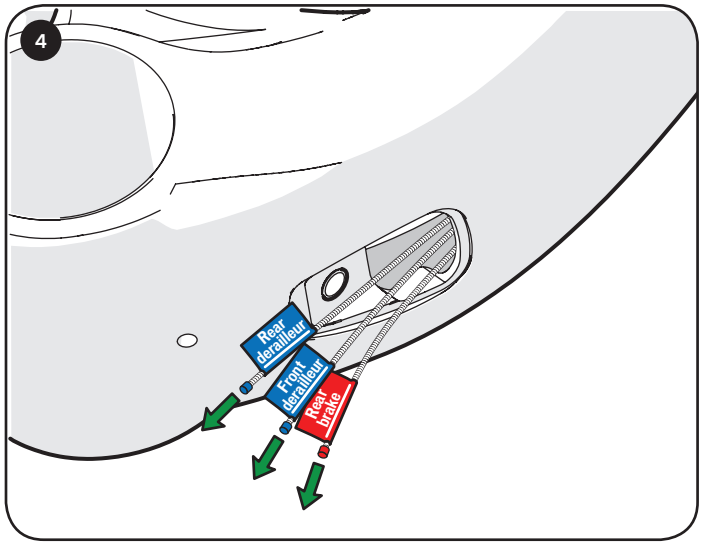
NOTE: Mechanical cable actuated rear brakes can be installed in the same way as derailleur and Command Post cables. Hydraulic brakes are installed in the opposite direction. Refer to pages 6 and 7 for additional information.

NOTE: If running a Command Post IR, it is recommended to refer to the Command Post IR Adjustable-Height Seatpost Instruction Guide, and complete the installation of the Command Post IR cable housing before installing any other cable housing.

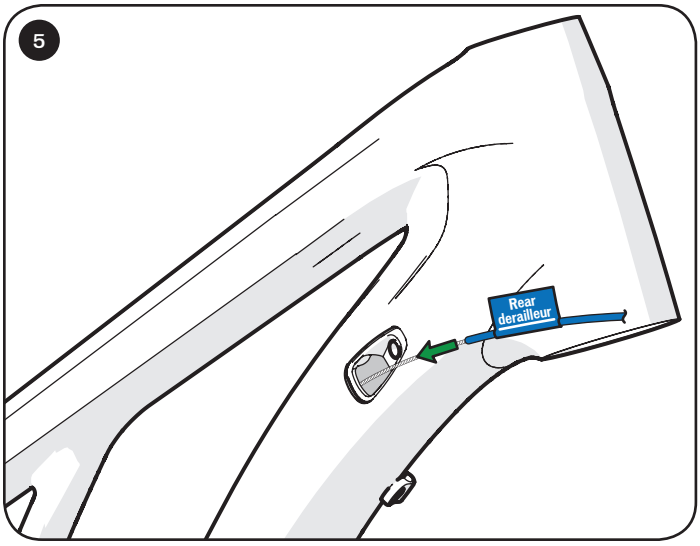
3

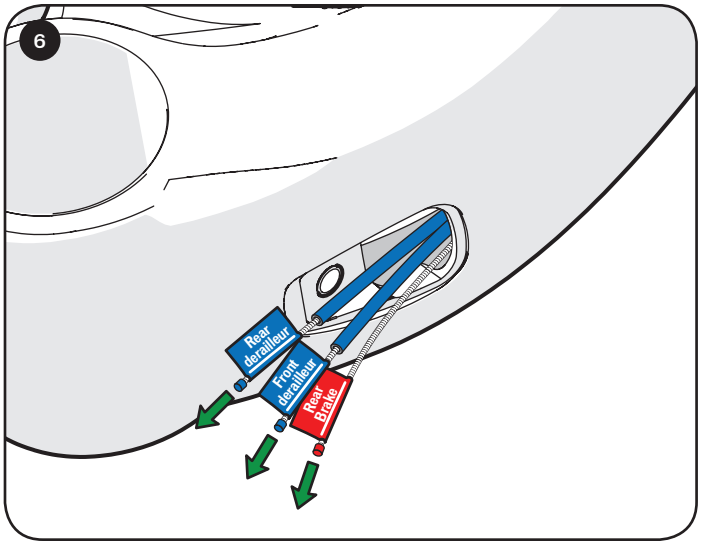


4

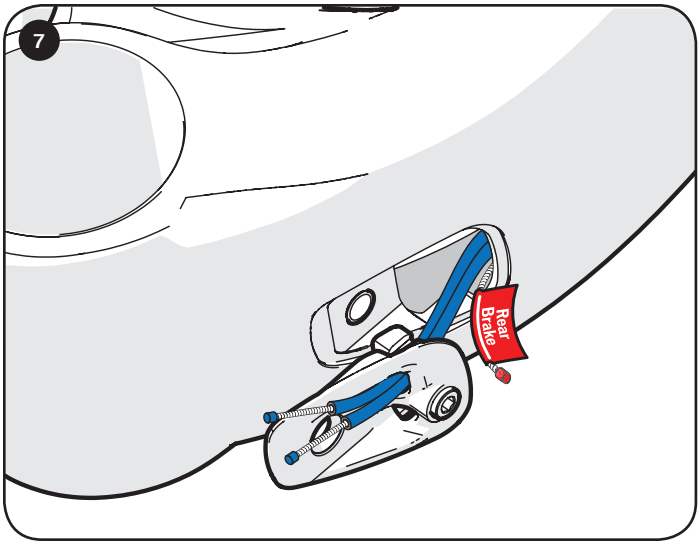


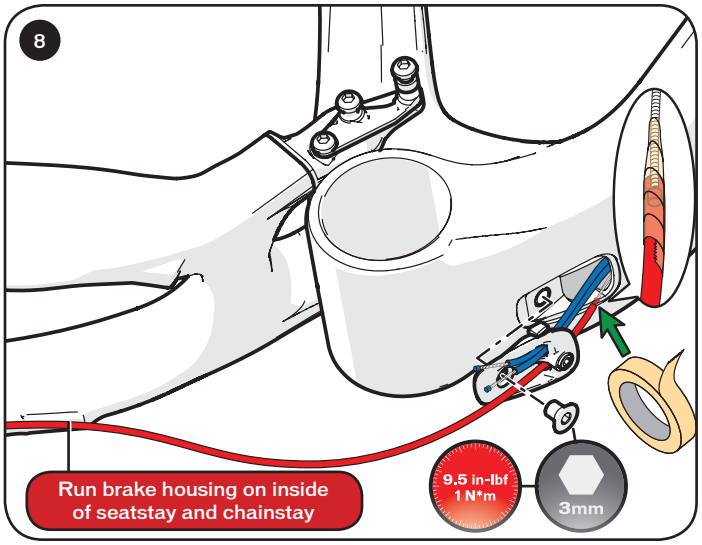
- **Fig.3:** To help simplify the installation of the cable housings, designate a derailleur cable housing for each component (derailleur, brake, Command Post) and mark each cable with tape. Run each derailleur cable through the proper entry port hole with the cable head entering first.
- **Fig.4:** Guide each cable out through the exit port hole. If necessary, use a hooked dental pick.



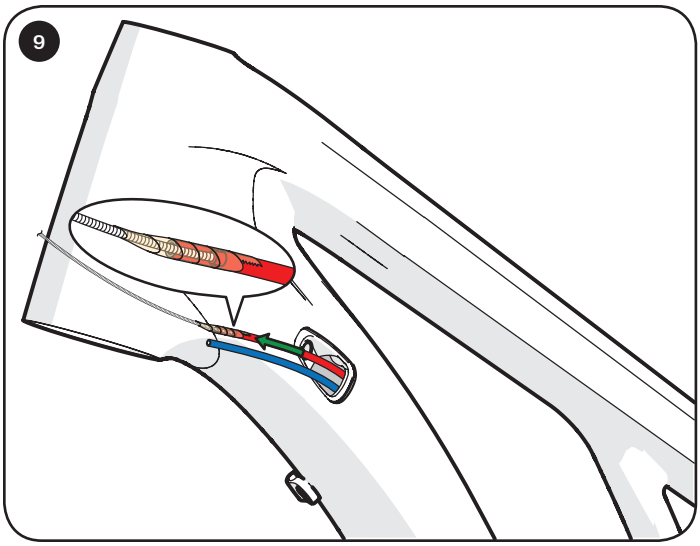


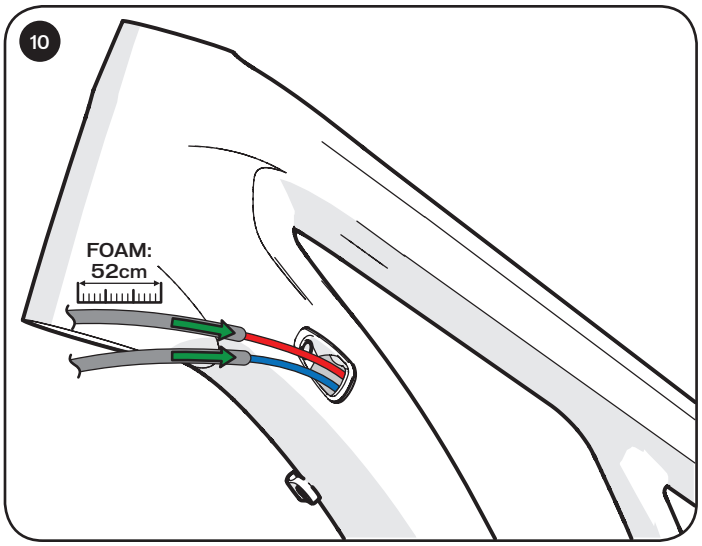
- **Fig.5:** Install each pre-cut housing over each derailleur cable, and into the entry port holes. Be sure to match the housing lengths to the correct cables. For hydraulic brakes, do not place any housing over the cable, as v this cable will be used to guide the hydraulic housing from the bottom.
- **Fig.6:** Push the derailleur cable housing(s) through the entry port hole(s) until they become visible at the exit port hole.



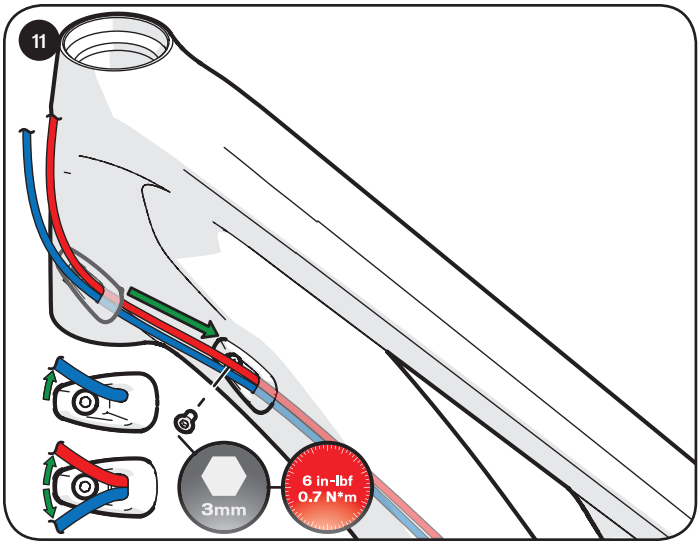


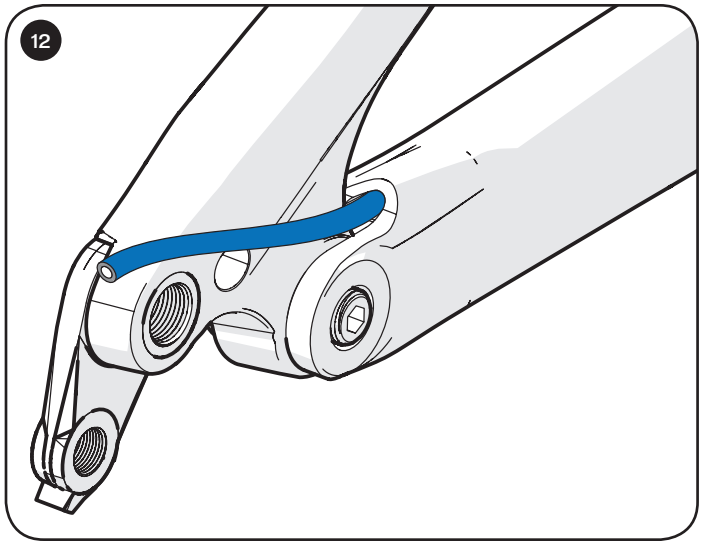
- **Fig.7:** Place the correct exit port hood scoop over the derailleur housing(s). Keep the cable intended for the rear brake out of the hood scoop.
- **Fig.8:** Hydraulic brakes: With the hydraulic housing disconnected from the brake lever, install the rear brake caliper on the seatstay brake mount, then run the housing through the exit port hood scoop brake hole. Tape the housing to the brake cable. Fasten the hood scoop to the frame.





- **Fig.9:** Pull the cable attached to the brake housing until the housing comes out the entry port hole.
- **Fig.10:** Install a section of 52cm long foam tubing (talc pre-applied at factoryv) over each section of housing, through the entry port hole.

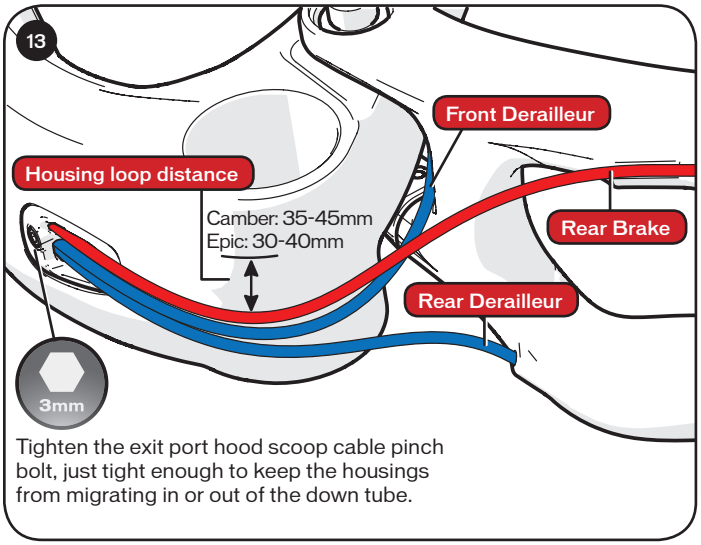


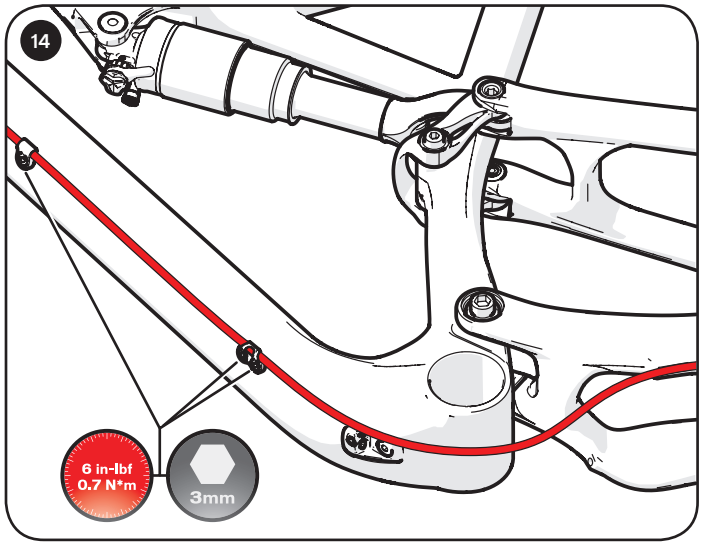


- **Fig.11:** Choose the hood scoops that match the cable choices. Install the correct hood scoop over the appropriate sections of housings. Place the hood scoops into the entry port holes and fasten the hood scoops to the frame (M4 x 13mm chamfered head bolts).

NOTE: If the bolts are being installed after the hood scoops have been installed on the housings, carefully flex the housings to the side to provide enough space for the bolt to access the hood scoop bolt hole. Be sure not to damage the housings.

- Once the entry and exit port hood scoops have been fastened to the frame, adjust the housing lengths so that each housing reaches its mating shifter or Command Post (hydraulic brake housing is adjusted later) with enough housing length to allow the handlebar to rotate freely through its entire range of rotation.
- **Fig.12:** Place the rear derailleur housing section into the chainstay. Pull the housing out of the chainstay at the dropout using a hooked dental pick.


13
Front Derailleur
Housing loop distance
Camber: 35-45mm
Epic: 30-40mm
Rear Brake
Rear Derailleur
3mm
Tighten the exit port hood scoop cable pinch bolt, just tight enough to keep the housings from migrating in or out of the down tube.



- **Fig.13:** Adjust each length of exposed cable housing to create a loop, so that the gap between the bottom bracket shell and the housing loops is 30-40mm (Epic) or 35-45mm (Camber).
  - Position the front derailleur housing against the cable stop, adjust the loop distance, then trim the housing to the appropriate length. Epic frames do not need a large loop since the housing does not connect to the chainstay.
  - Position the rear derailleur housing loop to the correct distance from the bottom bracket shell. Do not adjust the housing length at the rear derailleur until after the exit port pinch bolt has been tightened.
  - Position the rear brake housing loop to the correct distance from the bottom bracket shell. Final length adjustment can then be made at the brake lever so that the handlebar can rotate freely through its entire range of rotation. Remove the tape holding the cable to the housing, trim the housing length, attach the housing to the brake lever and bleed the brake if necessary.
- Tighten the exit port hood scoop cable pinch bolt, just tight enough to keep the housings from migrating in or out of the down tube.
- **Fig.14:** External rear brake routing: Camber and Epic models are equipped with two single-bolt guide (middle and upper position) and one dual-bolt cable guide (lower position). Place the guides over the brake housing and fasten the guides using recessed head bolts (M4 x 13 mm).

NOTE: Epic frame bottom bracket housing loops: Do not zip-tie the front derailleur housing to the rear derailleur and/or brake housings!

PART	TORQUE in-lbf (Nm)
HOOD SCOOP BOLT (Exit and Entry)	6 (0.7)
EXIT PORT HOOD SCOOP CABLE PINCH BOLT	9.5 (1)

PF30 BOTTOM BRACKET ASSEMBLY

This design allows for the installation of Specialized OSBB carbon cranks, or the installation of different adapters to fit a variety of crank offerings.

Installing PF30 and PF30DH Bottom Bracket Cups

The PF30 design (73x46mm PF30 or 83x46mm PF30DH bottom bracket shell, 42x30x7mm BB30 bearings, Specialized PF30 press-in cups), allow the use of Specialized carbon cranks, or, with the use of Specialized bearing adapters, the use of Shimano cranks or SRAM GXP MTN cranks. The adapters in some cases are followed by specific spacers and/or wave washers, depending on the crank. For additional information about crank compatibility, please refer to the chart below.

- For Specialized carbon crank installation, please refer to the Specialized Carbon Crankset Instruction Guide.

WARNING! Failure to follow these instructions may result in a catastrophic failure of the crank, frame and/or its components while riding, which may result in serious personal injury or death.

WARNING! Bicycle assembly is a complicated task which requires training and experience. Do not attempt installation of any component if you do not have experience and training as a bicycle mechanic. Failure to follow this warning may result in serious personal injury or death. Reference should also be made to Barnett's or some other comprehensive bicycle manual.

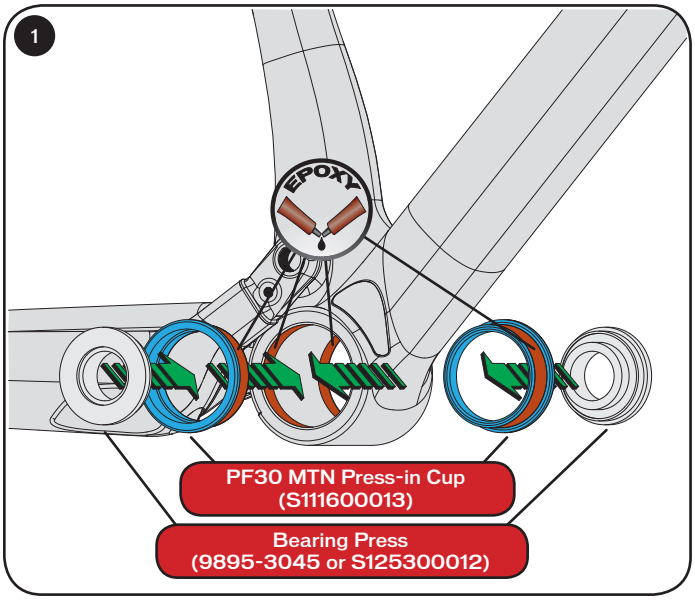
WARNING! Failure to follow the torque specifications in this instruction guide will void your warranty, but most importantly may result in damage to the crank, which may not be visible. If the crank is damaged, this can result in loss of structural integrity, which may result in serious personal injury or death. To ensure the best assembly possible and to prevent any damage to the crank components, follow all torque specifications.

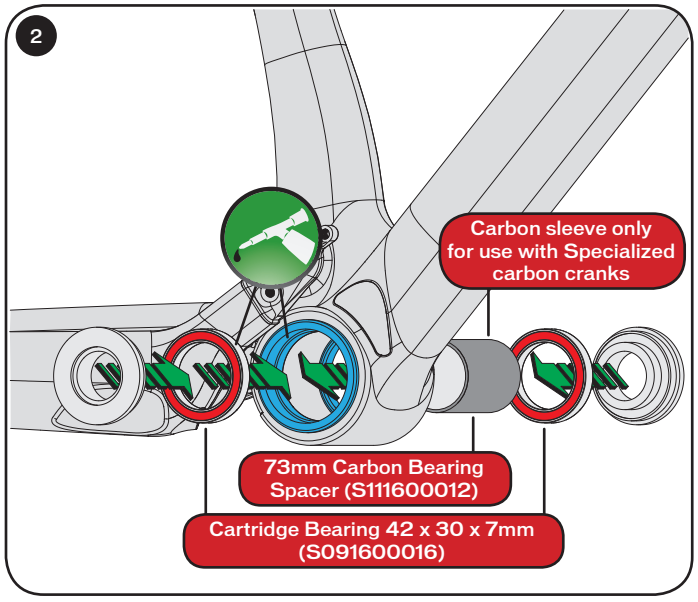
Frame Preparation

CAUTION: Do not face or ream bottom bracket shell! This can possibly prevent proper installation of the crank. Your Specialized frame does not require any bottom bracket shell pre-installation preparation, as all surfaces have been precisely machined to specific tolerances at the factory for proper interface with the S-Works Carbon crankset.

WARNING! Great care should be taken to not damage carbon fiber or composite material. Any damage may result in a loss of structural integrity, which may result in a catastrophic failure. This damage may or may not be visible in inspection. Before each ride, and after any crash, you should carefully inspect your crank for any fraying, gouging, scratches through the paint, chipping, bending, or any other signs of damage. Do not ride if your crank shows any of these signs. After any crash, and before you ride any further, take your bicycle to an Authorized Specialized Dealer for a complete inspection.

Installing the Bottom Bracket (73 x 46mm BB shell, press-in cups)





46mm PF30 SHELL WITH PRESS-IN CUPS

- Remove any grease from the bottom bracket shell.
- Finish cleaning the bottom bracket shell with an alcohol wipe.
- **Prepare the cranks for installation. Any adapters, spacers, wave washers, spider, chainrings, etc. that are involved with the installation of the crank must be ready to be installed prior to the installation of the bottom bracket cups.**

NOTE: Due to the 20 minute work time of the epoxy, the cranks must be installed immediately after the cups are installed, to ensure that the cups, bearings and crank are aligned.

- Fully mix the **3M DP 420** 2-part epoxy, then apply the epoxy to the outer surface of the OSBB cups and the first 10mm of the inner diameter of the bottom bracket shell.
- Wipe off the excess epoxy from the inside and outside flanges of the cups. Use an alcohol wipe to clean off any remaining residue.
- Press the cups into the bottom bracket shell until the cups lightly bottom out against the frame. Use either the Specialized Bottom Bracket Bearing Press (**S125300012**) or the Mindset Headset Bearing Press tool (**9895-3045**). When using the 9895-3045 tool, either use a Park Headset Press Tool or a bench-mounted vise to press the cups into the frame. Be sure to press the cups evenly into the frame.
- Apply grease to the outer diameter of the OSBB bearings, then press them into the cups using the same tool that pressed the cups into the frame.

Be sure to press the bearings in straight. Do not force the bearings into the cup. Wipe any last epoxy residue from the outside of the cup.

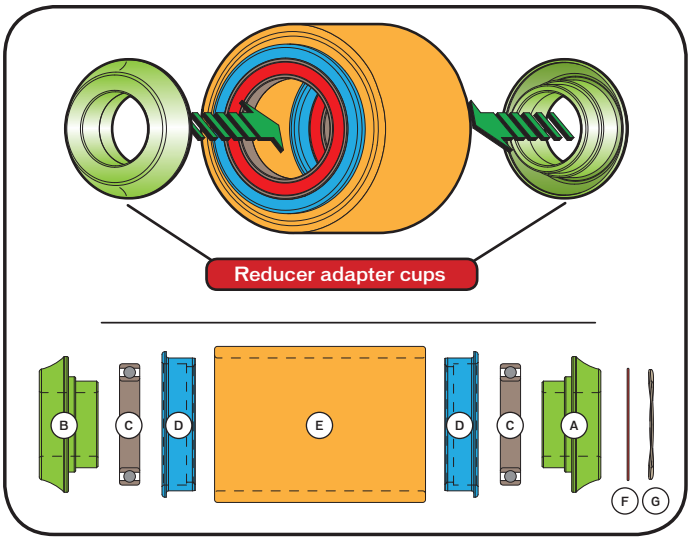
- Once the bearings bottom out in the cups, do not apply any more pressure. Excess force can damage the cups and cause the bearings to spin roughly.
- To remove the cups from the frame, pull the bearings out as shown in the Specialized Carbon Crank set Instruction Guide, then lightly tap the backside of the cups in a circular pattern with a large flat surface. Do not use a screwdriver, as it may damage the cups.
- Before installing new cups with new epoxy, remove any excess epoxy lips that may have formed at the inside and outside edges of the cups.

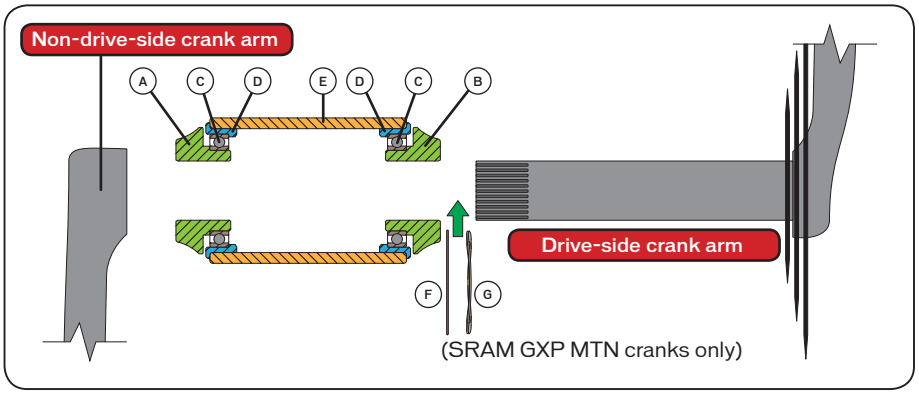
TECH TIP: Any thin epoxy residue that remains on the contact area of the bottom bracket shell should not be removed. This thin film of epoxy residue can actually benefit the bond of fresh epoxy when installing new cups.

Installing the Adapter Cups

- Install the left bearing reducer adapter into the non-drive-side bearing, and the right bearing reducer adapter into the drive-side bearing. The reducer adapters should install by hand with a friction fit.
- Shimano MTN require no spacers or wave washer.
- SRAM GXP MTN cranks require a wave washer and a selection of shims on the non-drive-side.
- Refer to the crank instruction guide for additional installation information.

A. Reducer adapter (left / non-drive-side)
B. Reducer adapter (right / drive-side)
C. OSBB (42x30x7mm) cartridge bearing
D. PF30 46mm to 42mm MTN press-in cup
E. 46mm diameter bottom bracket shell
F. Shim(s) (SRAM GXP MTN cranks only)
G. Wave washer (SRAM GXP MTN cranks only)





Mountain Crank Compatibility

CRANKSET / BOTTOM BRACKET TYPE	PF30 shell (carbon or alloy) • Shell inner diameter: 46mm • Shell width: 73mm • Width bearing-to-bearing: 73mm (with Specialized MTN press-in cups)
SPECIALIZED CARBON	■ PF30 press-in cups / OSBB bearings
SHIMANO HOLLOWTECH II	■ PF30 press-in cups / OSBB bearings / Specialized/Shimano reducer adapters (Part # S120400003)
SRAM/TRUVATIV BB30	■ SRAM PF30 cups for BB30
SRAM/TRUVATIV GXP	■ PF30 press-in cups / OSBB bearings / Specialized/SRAM reducer adapters (Part # S120400004)

CRANKSET / BOTTOM BRACKET TYPE	PF30DH shell (carbon or alloy) • Shell inner diameter: 46mm • Shell width: 83mm • Width bearing-to-bearing: 83mm (with Specialized MTN press-in cups)
SRAM PF30DH (XO, Descendant)	■ SRAM PF30 cups for BB30
E13 (long spindle)	■ E13 PF30 adapter/bearing/spacer kit

FORK LENGTH SPECIFICATIONS

WARNING! Specialized frames are compatible ONLY with forks that have a specific maximum amount of travel (see table below). Use of different styled forks or forks with longer travel may result in catastrophic failure of the frame which may result in serious personal injury or death.

FAMILY	MODEL	MAX FORK TRAVEL	CROWN
EPIC	All	100mm (3.9")	Single
CAMBER	All	110mm (4.3")	Single
CAMBER EVO	All	120mm (4.7")	Single
RUMOR	All	110mm (4.3")	Single
SAFIRE	All	120mm (4.7")	Single
STUMPJUMPER FSR	26" EVO	150mm (5.9")	Single
	29	130mm (5.1")	Single
	29 EVO	140mm (5.5")	Single
ENDURO	26"	160mm (6.5")	Single
	EVO	180mm (7.1")	Single
	29"	160mm (6.5")	Single
STATUS	All	200mm (7.9")	Double
DEMO	All	200mm (7.9")	Double

TORQUE SPECS

Torque specs are in-lbf (Nm)

PIVOT (in-lbf / Nm)	EPIC	CAMBER	RUMOR	SAFIRE
MAIN (BB)	180 (20)	150 (17)	150 (17)	215 (24.2)
DROPOUT	115 (13)	110 (12.4)	110 (12.4)	95 (10.7)
S-LINK @ FRAME	80 (9)	95 (10.7)	95 (10.7)	110 (12.4)
S-LINK @ SEATSTAY	160 (18)	95 (10.7)	95 (10.7)	110 (12.4)
S-LINK @ CLEVIS	80 (9)	--	--	95 (10.7)
LOWER SHOCK EYE	130 (14.7)	130 (14.7)	130 (14.7)	130 (14.7)
UPPER SHOCK EYE	130 (14.7)	130 (14.7)	130 (14.7)	130 (14.7)

PIVOT (in-lbf / Nm)	STUMPJUMPER FSR	ENDURO	STATUS	DEMO
MAIN (BB)	150 (17)	215 (24.2)	215 (24.2)	190 (21.5)
DROPOUT	110 (12.4)	150 (17)	110 (12.4)	190 (21.5)
S-LINK @ FRAME	110 (12.4)	190 (21.5)	215 (24.2)	190 (21.5)
S-LINK @ SEATSTAY	110 (12.4)	190 (21.5)	110 (12.4)	190 (21.5)
S-LINK @ CLEVIS	170 (19.2)	190 (21.5)	--	190 (21.5)
LOWER SHOCK EYE	130 (14.7)	130 (14.7)	190 (21.5)	170 (19.2)
UPPER SHOCK EYE	95 (10.7)	170 (19.2)	190 (21.5)	110 (12.4)

REAR DERAILLEUR	70 (7.9)
FRONT DERAILLEUR	44 (5)
SEAT COLLAR (Bolt style)	45 (5.1)
WATER BOTTLE	25 (2.8)
DOWN TUBE CABLE BATS	30 (3.4)
REAR AXLE	133 (15)
DERAILLEUR HANGER	35 (4)
DERAILLEUR HANGER (Demo)	115 (11.3)
BRAIN MOUNT	55 (6.2)
BRAIN HOUSING GUIDE	6 (0.7)

FRAME SPECIFICATIONS

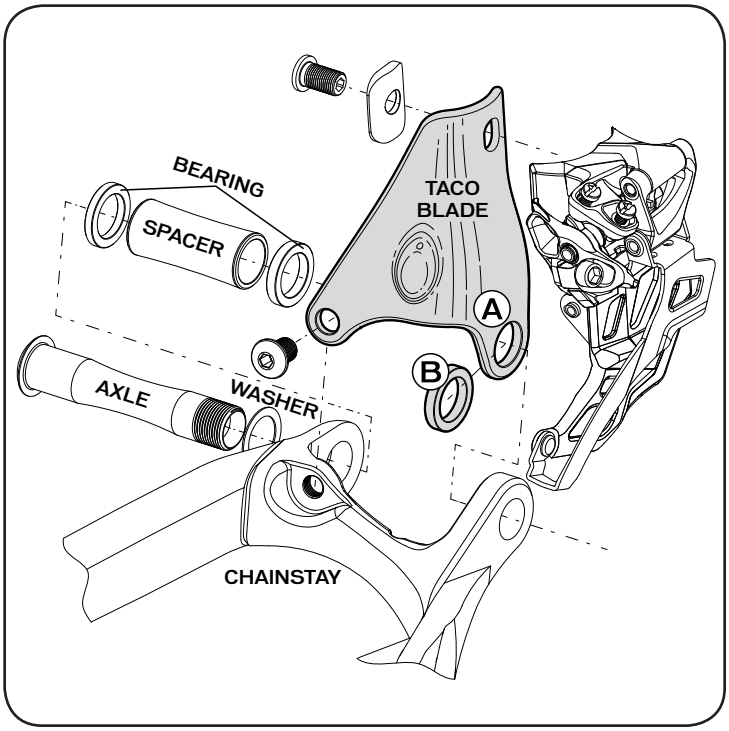
DESCRIPTION	EPIC	CAMBER	RUMOR
HEADSET	1 1/8" upper / 1.5" lower	1 1/8" upper / 1.5" lower	1 1/8" upper / 1.5" lower
SEATPOST DIAMETER	27.2mm	30.9mm	30.9mm
SEAT COLLAR (CARBON)	31.8mm	--	--
SEAT COLLAR (ALLOY)	31.8mm	34.9mm	34.9mm
FRONT DERAILLEUR CLAMP	High direct mount (non-WC)	E-Type Direct Mount (DMD)	E-Type Direct Mount (DMD)
REAR HUB SPACING	142mm x 12mm	142mm x 12mm	142mm x 12mm
BOTTOM BRACKET SHELL	PF30 73 x 46mm	PF30 73 x 46mm	PF30 73 x 46mm
DERAILLEUR HANGER	9892-4020	9892-4020	9892-4020
ISCG TABS	--	--	--

DESCRIPTION	SAFIRE	STUMPJUMPER FSR	ENDURO 26"
HEADSET	1 1/8" upper / 1.5" lower	1 1/8" upper / 1.5" lower	1 1/8" upper / 1.5" lower
SEATPOST DIAMETER	30.9mm	30.9mm	30.9mm
SEAT COLLAR (CARBON)	--	34.9mm	34.9mm
SEAT COLLAR (ALLOY)	34.9mm	34.9mm	34.9mm
FRONT DERAILLEUR CLAMP	E-Type Direct Mount (DMD)	E-Type Direct Mount (DMD)	E-Type Direct Mount (DMD)
REAR HUB SPACING	135mm	142mm x 12mm	142mm x 12mm
BOTTOM BRACKET SHELL	Threaded 73mm	PF30 73 x 46mm	PF30 73 x 46mm
DERAILLEUR HANGER	9895-4020	9892-4020	9892-4020
ISCG TABS	--	ISCG 05	ISCG 05

DESCRIPTION	ENDURO 29"	STATUS	DEMO
HEADSET	1 1/8" upper / 1.5" lower	1.5" upper / 1.5" lower	1.5" upper / 1.5" lower
SEATPOST DIAMETER	30.9mm	30.9mm	30.9mm
SEAT COLLAR (CARBON)	34.9mm	--	36.9mm
SEAT COLLAR (ALLOY)	34.9mm	34.9mm	34.9mm
FRONT DERAILLEUR CLAMP	SRAM MDM (with taco blade, below)	--	--
REAR HUB SPACING	142mm x 12mm	135mm	150mm (Team - 135mm)
BOTTOM BRACKET SHELL	PF30 73 x 46mm	Threaded 73mm	PF30DH 83 x 46mm
DERAILLEUR HANGER	9892-4020	9895-4020	9891-4010
ISCG TABS	ISCG 05	Standard	ISCG 05

ENDURO 29 CHAINRING SETUP

- **2 Chainring setup:** Use taco blade (A) to mount front derailleur.
- **1 Chainring setup:** Remove taco blade and replace with spacer (B) between bearing and chainstay.

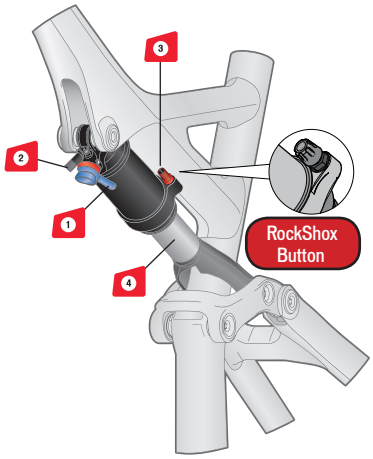


AUTOSAG AIR SHOCK SETUP

Certain Epic, Camber, Rumor, Stumpjumper, Safire and Enduro models are equipped with AUTOSAG, a unique new feature designed to simplify and speed up the adjustment of air pressure. The AUTOSAG feature automatically determines the correct amount of sag, and eliminates the need to refer to an air chart to determine the correct pressure based on rider weight. However, the shock still requires compression and rebound adjustment based on type of terrain and rider weight. Please refer to the compression and rebound charts (page 19) following the setup steps.

NOTE: Shock air pressure can also be set up manually to rider preference.

Step 1: Setting Autosag



1. Position the shock compression lever or knob (blue) to the full open or off position 1. Remove the positive air valve cap (black) and the AUTOSAG valve cap (red).
2. Attach a high-pressure shock pump to the positive air valve 2.
   - **All models except Epic and Safire:** inflate to the rider's weight in pounds (lb) plus 50psi. For kilograms, multiply by three (e.g. 75kg = 225psi).
   - **Epic and Safire:** inflate to the rider's weight in pounds (lb) plus 100psi. For kilograms, multiply by two + 100psi (e.g. 75kg = 250psi).

NOTE: Do not exceed 350psi before activating the Autosag valve (this is a starting pressure only). After the Autosag is activated, Fox recommends a maximum working pressure of 300psi when riding.

3. Make sure the rider is wearing all gear that would normally be worn on a ride (shoes, helmet, hydration pack if used, etc.). Mount the bicycle, prop up against a wall, and sit in the saddle in a normal riding position. Do **not** set sag while riding.
4. Press the AUTOSAG valve 3 (Fox: Air valve. RockShox: Grey button). Air will release as the suspension settles into its pre-adjusted sag point. Make sure all the air is out and release the valve.
5. Cycle the shock a few times 4, then dismount the bicycle.
6. Do **not** depress the AUTOSAG valve again, otherwise the proper sag setting will be lost, and will require this procedure to be repeated from step #2.
7. Put the positive air and AUTOSAG valve caps back on.

NOTE: Rider weight in pounds (lb) plus the PSI (depending on model as described above) is the lowest amount of pressure that should be in the shock before activating AUTOSAG. If the air pressure is too low, the AUTOSAG button may let air out of the negative chamber, which would result in incorrect sag.

NOTE: Sag is measured as the distance between the o-ring and the shock body's seal, after the rider's weight has been applied to the bike, with no bounce. When AUTOSAG is correctly set, sag should measure approximately (20-30% of stroke, depending on riding/terrain experience, i.e travel). If the rider is approaching 300lbs, AUTOSAG may not function, and sag may exceed the bike's prescribed amount.

Step 2: Adjusting rebound

Refer to the chart to set the rebound damping (red knob). Rebound damping controls the rate at which the shock returns after it has been compressed.

- Clockwise for slower rebound (slow speed, bigger hits).
- Counter-clockwise for faster rebound (higher speeds, small bumps, more traction).

Step 3: Adjusting compression

Refer to the chart to set the compression damping (blue knob).

SPECIALIZED / FOX BRAIN FADE: Controls the inertia valve damping. The blue knob adjusts damping (Race Tune or Trail Tune) from firm (clockwise) to soft (counter-clockwise) and does NOT completely lock out the shock.

Backing off from full firm can help with tracking in loose terrain conditions while riding off camber sections or climbing. The soft setting can also help during lengthy downhill or rugged conditions where the rider may want the suspension active at all times.

FOX CTD: Provides varying levels of compression damping, depending on whether the rider is climbing, trail riding or descending.

- C (Climb): The firmest low-speed compression setting is activated for maximum pedaling efficiency.
- T (Trail): Moderate low-speed compression setting is activated for an optimal blend of pedaling efficiency and bike control on variable terrain. Factory Series shocks offer three levels of Trail adjust. Performance and Evolution shocks are preset with low-speed compression damping.
- D (Descend): Low-speed compression setting optimized for the perfect balance of control and plushness for steep, aggressive descents.

ROCKSHOX MONARCH RL:

- Firm - compression is firmed up, providing a pedal platform for climbing and/or smooth hardpack.
- Open - no pedal platform, unobstructed compression damping for trail riding and descending.

SETUP DATA

DATE						
RIDER WEIGHT						
FORK PSI						
FORK REBOUND DAMPING (# of clicks from full slow)						
FORK COMPRESSION DAMPING (# of clicks from full firm)						
SHOCK PSI						
SHOCK REBOUND DAMPING (# of clicks from full slow)						
SHOCK COMPRESSION DAMPING (# of clicks from full firm)						

AIR CHARTS

Certain Rumor and Camber, as well as Enduro 26 and 29 models are equipped with shocks which require that the pressure be adjusted with a shock pump. Please refer to the supplied air chart for the suggested air pressure for the rider's weight. Rider weight includes all riding gear (clothing, shoes, helmet, gloves, hydration pack, etc).

X-FUSION 02RL AIR SHOCK SETUP

Step 1: Adjusting sag

MODEL	SAG	EYE-TO-EYE / STROKE
CAMBER	12mm (25%)	7.75" x 1.875" (197mm x 47.5mm)
RUMOR	12mm (25%)	7.75" x 1.875" (197mm x 47.5mm)

NOTE: See the chart for starting air pressures to dial in the sag. The chart is only a starting point, actual sag needs to be checked and adjusted on the bike, while riding, and at regular intervals.

Position the blue compression lever in the "Open" position to allow the shock to sag more easily. After setting the pressure, push the rubber ring up to the seal, sit on the bike gently, dismount, and measure sag.

Step 2: Adjusting rebound

Refer to the rebound/compression chart to set the rebound damping (red knob). Rebound damping controls the rate at which the shock returns after it has been compressed.

- Clockwise for slower rebound (slow speed, bigger hits).
- Counter-clockwise for faster rebound (higher speeds, small bumps, more traction).

Step 3: Adjusting compression

The X-Fusion 02RL adjustment has two lever positions, locked out or open, based on the terrain conditions.

		CAMBER/ RUMOR	ENDURO 26	ENDURO 29
RIDER WEIGHT		X-FUSION 02RL	DB AIR 26	DB AIR 29
LBS	(KG)	PSI	PSI	PSI
90	(41)	72	103	88
100	(45)	79	105	90
110	(50)	86	108	93
120	(54)	93	112	97
130	(60)	100	117	102
140	(64)	107.5	123	108
150	(68)	115	130	115
160	(73)	120	137	122
170	(77)	125	144	129
180	(82)	130	152	137
190	(86)	135	163	144
200	(91)	140	173	155
210	(95)	145	184	164
220	(100)	150	195	175
230	(104)	155	205	186
240	(109)	160	215	198
250	(113)	165	225	211
260	(118)	170	235	225
270	(123)	175	245	239
280	(127)	180	255	253

CANE CREEK DB AIR SHOCK SETUP

MODEL	SAG	EYE-TO-EYE / STROKE
ENDURO 26/29"	17mm (30%)	8.5 x 2.25" (216mm x 57mm)

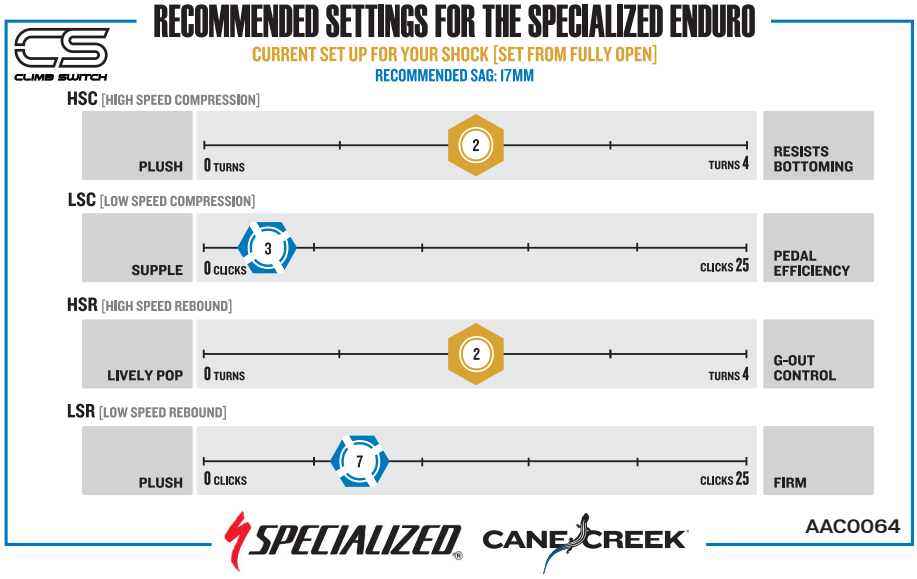
The recommended compression and rebound settings for the DB Air shock are based off a mean rider weight of 150-180 lbs (68-82 Kg). For any weight above or below this range, it is recommended to adjust the rebound damping settings.

If the air pressure is lower than 125psi, rebound damping should be decreased (sped up). Above 150psi, rebound damping should be increased (slowed down).

For additional shock setup information, please visit http://ww2.canecreek.com/products/suspension/db-air.

NOTE: Air pressures, rebound and compression settings are ***suggested starting point*** recommendations only. They should be adjusted according to the rider's needs for each type of terrain to achieve optimal performance.

NOTE: Not all shock pumps are 100% accurate. To ensure that the sag is set correctly, Specialized recommends that the sag be manually measured after the shock is pressurized and the shock pump is removed.



COIL SHOCK SETUP

Step 1: Adjusting sag

- Proper sag should be achieved with one turn of preload on the spring. More then two turns of preload will require a higher spring rate or not enough sag will require a softer spring rate. See spring rate chart for additional information or refer to the shock manual.

SAG INFO:

MODEL	SAG (%)	SAG (inches)	Sag (mm)	EYE-TO-EYE / STROKE (inches)	EYE-TO-EYE / STROKE (mm)
STATUS	30 - 35%	0.8 - 0.95"	21 - 24mm	8.75" x 2.75"	222.3mm x 69.9mm
DEMO 8	30 - 35%	0.9 - 1.0"	23 - 27mm	9.5" x 3"	241.3mm x 76.2mm
ENDURO EVO	30 - 35%	0.75 - 0.85"	19 - 22mm	8.75" x 2.5"	222.3mm x 63.5mm

SPRING RATE:

MODEL	XS	S	M	L
STATUS	350	400	450	500
DEMO 8 (Ohlins)	52 N/mm (297lb)	60 N/mm (343lb)	68 N/mm (388lb)	76 N/mm (434lb)
DEMO 8 (DB Coil)	--	350	400	450
DEMO 8 (Fox Van RC)	300	350	400	450
ENDURO EVO		450	500	550
ENDURO EXPERT EVO		76 N/mm (434lb)	84 N/mm (479lb)	92 N/mm (525lb)

OHLINS SHOCK RATES / TUNING INFO: Please refer to the Ohlins shock manual supplied with the shock, or go to www.specialized.com.

Step 2: Setting rebound

Adjust Rebound (red knob):

Rebound damping controls the rate at which the shock returns after it has been compressed.

- Clockwise for slower rebound (slow speed, bigger hits).
- Counter-clockwise for faster rebound (higher speeds, small bumps, more traction).

Step 3: Setting compression

Vanilla RC / R: Adjust low-speed compression (small blue knob):

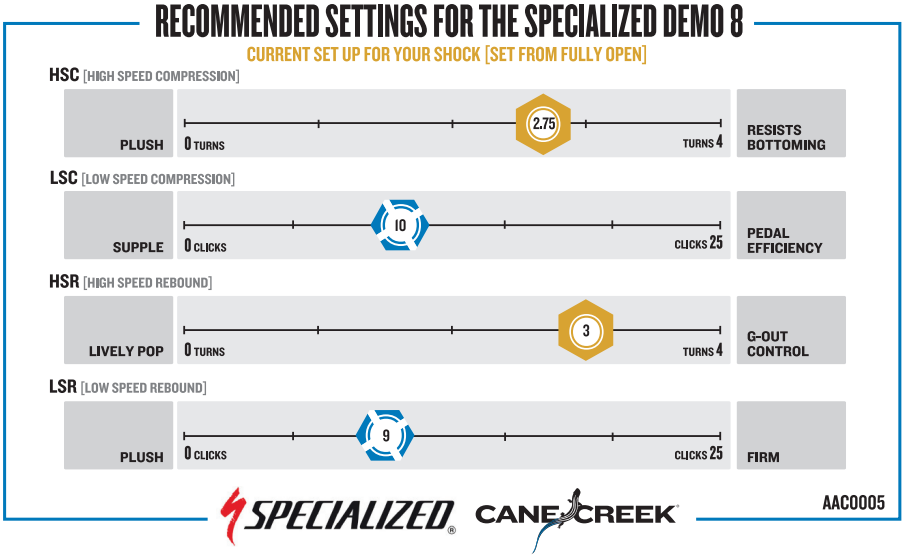
Low-speed compression damping controls slower wheel movement, which helps in pedaling efficiency and bike attitude.

- Clockwise for a firmer platform and more efficient pedaling, greater resistance to small and medium bumps, more harshness.
- Counter-clockwise for a more active, supple reaction to terrain, less efficient pedaling, less harshness.
- Turn the compression adjuster knob to full firm and ride your bike for a while, then gradually reduce compression until it starts to feel too soft and active for the terrain. Gradually increase compression until the optimal setting is found for the terrain and riding style.

Setting Cane Creek Double Barrel coil rebound and compression

For additional shock setup information, please visit http://ww2.canecreek.com/products/suspension/double-barrel.

NOTE: Air pressures, rebound and compression settings are ***suggested starting point*** recommendations only. They should be adjusted according to the rider's needs for each type of terrain to achieve optimal performance.



SHOCK SETTINGS

COMPRESSION						
	EPIC SJ FSR 29 SAFIRE	SJ FSR 26 / 29 / EVO CAMBER	SJ FSR 26 / 29 / EVO CAMBER SAFIRE RUMOR ENDURO 26 / 29	CAMBER RUMOR	CAMBER SAFIRE RUMOR
TERRAIN	BRAIN (Race tune)	BRAIN (Trail Tune)	CTD FACTORY	CTD PERFORMANCE / EVOLUTION	MONARCH RL	X-FUSION 02RL
 XC Race/Climbing/ Asphalt	0 - 2	0 - 2	C	C	FIRM	LOCKOUT
 Smooth hardpack	3 - 6	3 - OPEN	T (1 - Soft) (2 - Medium) (3 - Firm)	T	FIRM	LOCKOUT
 Trail riding	3 - 6	3 - OPEN	T (1 - Soft) (2 - Medium) (3 - Firm)	T	OPEN	OPEN
 Downhill/Technical	6	OPEN	D	D	OPEN	OPEN

BRAIN SHOCK COMPRESSION
(Counter-clockwise clicks from full firm)

REBOUND					
RIDER WEIGHT		BRAIN	CTD FACTORY / PERFORMANCE / EVOLUTION	MONARCH RL	X-FUSION 02RL
LBS	(KG)				
90	(41)	5-9	10-14	7-10	8-20
100	(45)				
110	(50)				
120	(54)				
130	(60)				
140	(64)	4-7	7-14	5-10	5-11
150	(68)				
160	(73)				
170	(77)				
180	(82)				
190	(86)				
200	(91)	0-5	5-10	3-8	3-8
210	(95)				
220	(100)				
230	(104)				
240	(109)				
250	(113)				
260	(118)	0-3	0-5	0-3	0-3
270	(123)				
280	(127)				

REBOUND
(Counter-clockwise clicks from full slow)

CARBON FRAME INSTRUCTIONS

Specialized carbon frames utilize advanced composite materials that require particular care during assembly, storage and riding. This installation and care guide contains instructions and warnings, plus torque specifications. Assembling a complete bicycle is a complicated task requiring training and experience, only a trained and experienced bicycle mechanic should install components to this frame. Reference should also be made to Barnett's or some other comprehensive bicycle manual.

WARNING! Failure to follow these instructions may result in a catastrophic failure of the frame and/or its components while riding, which may result in serious personal injury or death.

WARNING! Bicycle assembly is an art which requires training and experience. Do not attempt installation of any component if you do not have experience and training as a bicycle mechanic.

To ensure the best assembly possible and to prevent any damage to the components or frame, follow all torque specifications. Please refer to the specific owner's manuals for each mating component's correct torque specifications. If the mating component's recommended torque exceeds the frame's recommended torque, use the lower torque specification. Due to torque considerations, not all components will be compatible.

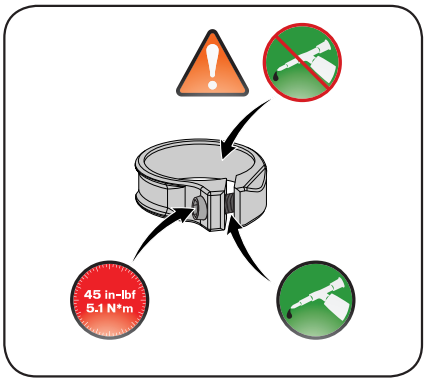
WARNING! Failure to follow the torque specifications in this installation guide will void your warranty, but most importantly may result in damage to the frame which may not be visible. If the frame is damaged, this can result in loss of structural integrity.

Bicycle components such as a handlebar, handlebar stem, seatpost, saddle, brakes, must be mutually compatible with each other, as well as the frame and the intended use. Any doubt regarding compatibility should be discussed with your local Authorized Specialized Dealer.

WARNING! When placing the frame and/or bicycle in a repair stand, clamp the stand to the seatpost and not the frame. Clamping the frame can cause damage to the frame that may or may not be visible, which may impair the structural integrity of the frame.

WARNING! Great care should be taken to not damage carbon fiber or composite materials, including the frame and any carbon fiber or composite components. Any damage may result in a loss of structural integrity, which may result in a catastrophic failure. This damage may or may not be visible in inspection. Before each ride, and after any crash, you should carefully inspect your bicycle for any dents, fraying, gouging, scratches through the paint, chipping bending, or any other signs of damage. Do not ride if your bicycle shows any of these signs. After any crash, and before you ride any further, take your bicycle to an Authorized Specialized Dealer for a complete inspection.

Seatpost



Refer to your seatpost owner's manual prior to installation. Specialized FSR frames have a 30.9mm or 27.2mm seatpost diameter and require that the seatpost have a tolerance of 30.78mm to 30.95mm or 27.08mm to 27.25mm. Do not grease the inside surface of the carbon seat tube!

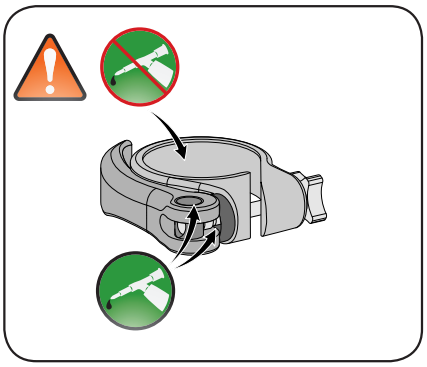
Certain Specialized carbon frames use a quick-release seatpost binder. Since the components of this assembly are in direct contact with carbon fiber, pay special attention to ensure proper tightness for the seatpost when correctly tightened to specifications.

TECH TIP: Specialized recommends the application of carbon assembly compound (or carbon paste) between the seat tube and seatpost to increase friction. See your Authorized Specialized Dealer if you have any questions.

WARNING! Do not extend the seatpost above the minimum insertion line. Extension beyond the minimum insertion line can result in failure, causing serious injury or death.

WARNING! Do not pull down on down tube derailleur cables to pre-stress the cables. This can cause damage to the cable guides.

Bottom bracket

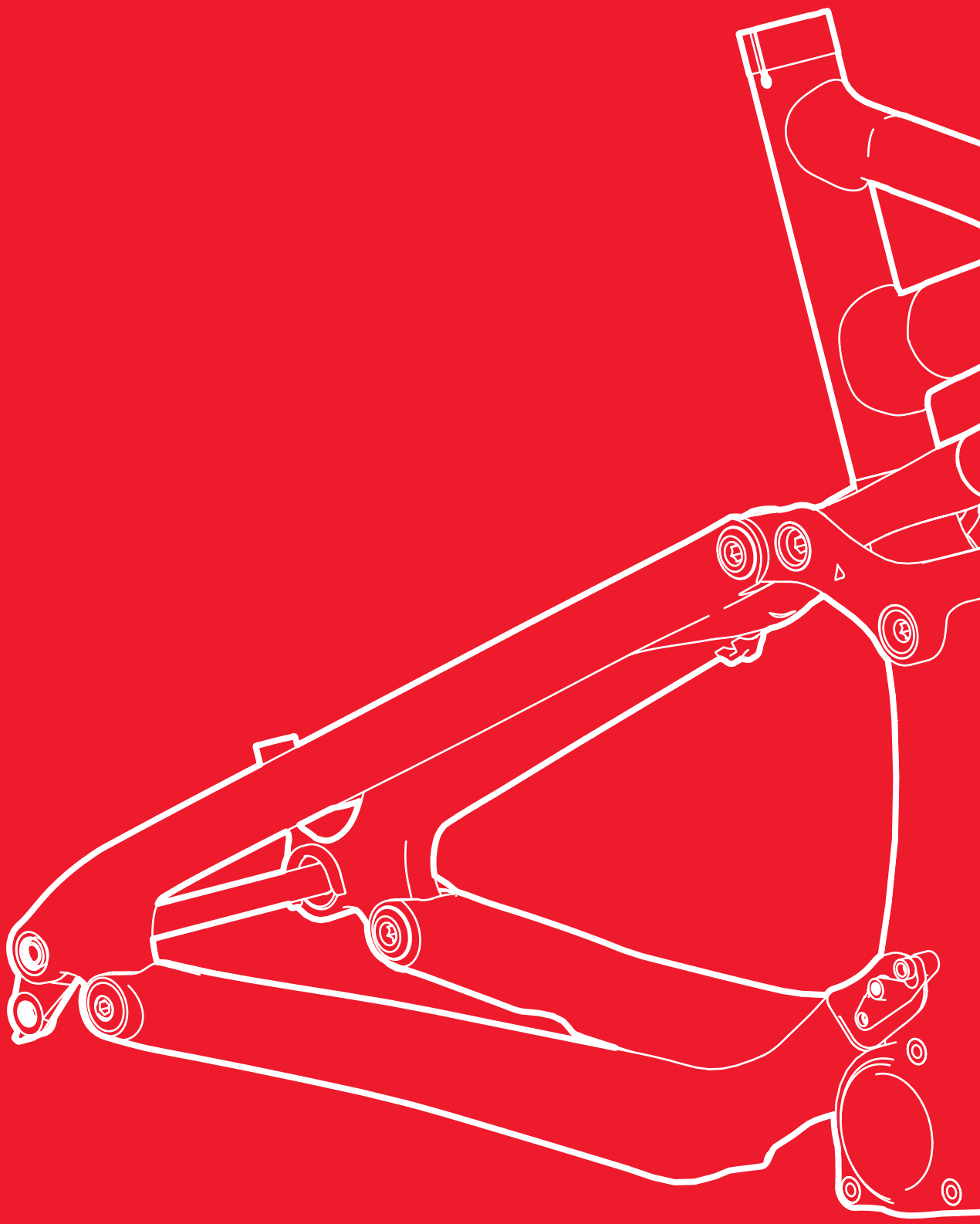


Your Specialized carbon frame does not require any bottom bracket or head tube pre-installation preparation. All surfaces are already prepared from the factory, with the exception of greasing the bottom bracket threads (threaded bottom bracket cups) and head set cups. For threaded bottom brackets, it is acceptable to chase the bottom bracket threads if necessary. Do not face bottom bracket cups.

Oversized Bottom Bracket: Please refer to the carbon crank instruction guide (IG0276 - Crankset - Carbon MTB Crankset) for assembly instructions and compatible tools. For crank compatibility specifications, please refer to the carbon crank compatibility guide (CG0308 - Bottom Bracket - Oversized MTB Bottom Bracket). All documents are available at www.specialized.com.

Headset installation / removal

Specialized carbon frames use a 1 1/8" (41.8mm x 8mm x 45°) Campagnolo Standard compatible top and 1.5" (52mm x 7mm x 45°) bottom bearing, except Demo frames which use a 1.5" diameter headset, top and bottom. Ensure that replacement bearings are compatible with the Specialized headset specification. No tools are needed for installation or removal of both bearings. **Grease bearing surfaces before installation.**



SPECIALIZED BICYCLE COMPONENTS
15130 Concord Circle, Morgan Hill, CA 95037 (408) 779-6229

INSTRUCTION GUIDE
COMMAND POST IR ADJUSTABLE-HEIGHT SEATPOST

THIS BRIEF INSTRUCTION GUIDE CONTAINS IMPORTANT INFORMATION.
PLEASE READ CAREFULLY AND STORE IN A SAFE PLACE.

This instruction guide contains important safety, performance and service information. Read it before you take the first ride on your new Command Post IR, and keep it for reference.

Additional safety, performance and service information for specific components such as suspension or pedals on your bicycle, or for accessories such as helmets or lights that you purchase, may also be available. Make sure that your Authorized Specialized Dealer has given you all the manufacturers' literature that was included with your bicycle or accessories. In case of a conflict between the instructions in this instruction guide and information provided by a component manufacturer, always follow the component manufacturer's instructions.

If you have any questions or do not understand something, take responsibility for your safety and consult with your Authorized Specialized Dealer or the bicycle's manufacturer.

This manual is not intended as a comprehensive use, service, repair or maintenance manual. Please see your Authorized Specialized Dealer for all service, repairs or maintenance. Your Authorized Specialized Dealer may also be able to refer you to classes, clinics or books on bicycle use, service, repair, and maintenance.

Many of the Warnings and Cautions say "you may lose control and fall." Because any fall can result in serious injury or death, we do not always repeat these warnings. Because it is impossible to anticipate every situation or condition that can occur while riding, this instruction guide makes no representation about the safe use of the bicycle under all conditions. There are risks associated with the use of any bicycle that cannot be predicted or avoided, and which are the sole responsibility of the rider. This instruction guide should be used in conjunction with the Specialized Bicycle Owner's Manual. If you have purchased this product in the aftermarket or separate from the bicycle, go to www.specialized.com and download and read the Bicycle Owner's Manual.

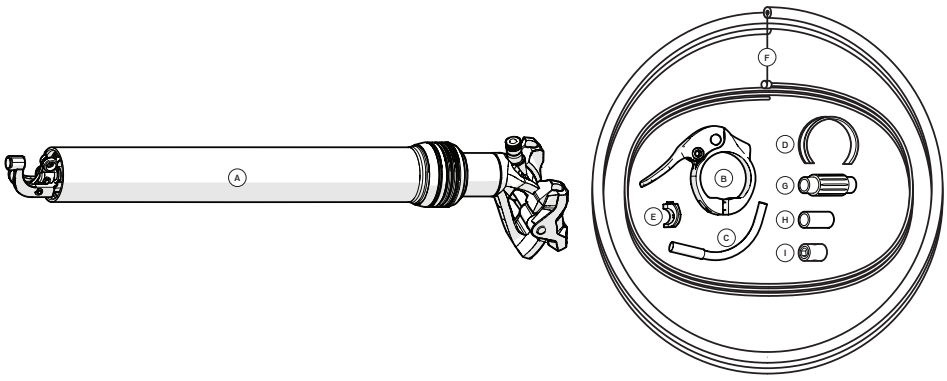
WARNINGS

- Air pressure determines the rate of return; more PSI, faster rise. Never exceed 25 PSI (1.72 bar) in the Command Post IR air chamber. Before riding, operate the Command Post IR and ensure the return rate is not excessive, or else injury might occur while riding. This applies equally to boys and girls.
- An incorrect sizing interface can result in slippage and/or failure of the Command Post IR, causing serious personal injury or death. Ensure your seat tube is made to accept a 30.9mm seatpost, and nothing else. For carbon frames, use of friction paste is optional.
- Seat collar torque requirements can vary depending on the specific frame and seat collar used. Exceeding the maximum torque limit can result in damage to the Command Post IR and/or frame and also hamper return action, which can result in a loss of control of the bicycle and serious personal injury or death.
- The Command Post IR is marked with a minimum insertion line. This is the minimum amount of insertion required for the Command Post IR to remain structurally safe. Also, some frames require additional insertion to ensure that the frame remains structurally sound. The bottom end of the Command Post IR tube should extend past the underside of the top tube.
- Activating the Command Post IR lever while riding may result in loss of control of the bicycle, resulting in serious personal injury or death. Before slaying singletrack, practice using the Command Post IR in the parking lot, on grass, or around the house (your call on this one). Master before using.
- The air chamber, accessed at the top of the Command Post IR and by removing the air valve cap, must be fully discharged before performing any service. Discharge the air chamber with the Command Post IR in the fully extended position or you might end up in a world of hurt.
- Recommended torques in this instruction guide are specific for the Command Post IR. Consult your bicycle owner's manual for recommended torque specifications for other parts. When mating parts, use the lower torque recommendation. Get and use a torque wrench!
- Make sure the cable housing is kink-free, and that it does not interfere with any bicycle components or clothing, nor interfere with handlebar movement.

1. INSTALLING THE SEATPOST

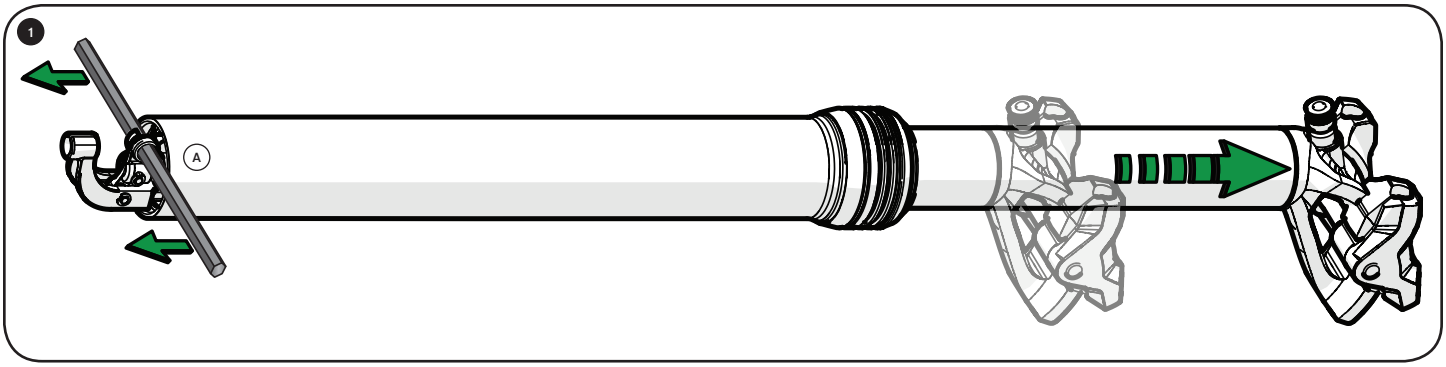
Before beginning installation, ensure the following items are in the box (or supplied with the bike):

A. Command Post IR
B. Integrated grip lever (Original Equipment only)
C. Noodle (90-degree pipe)
D. Shim (non-Specialized locking grips)
E. Inline lever seal
F. Cable and cable housing
G. Inline barrel adjuster
H. One (1) ferrule
I. Cable barrel (with set screw)

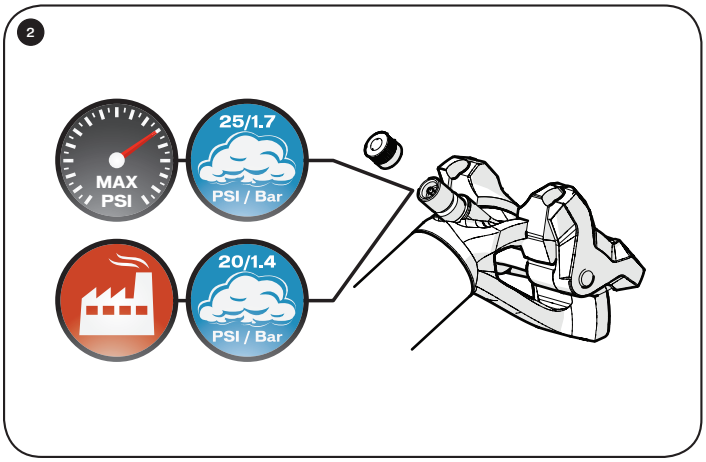


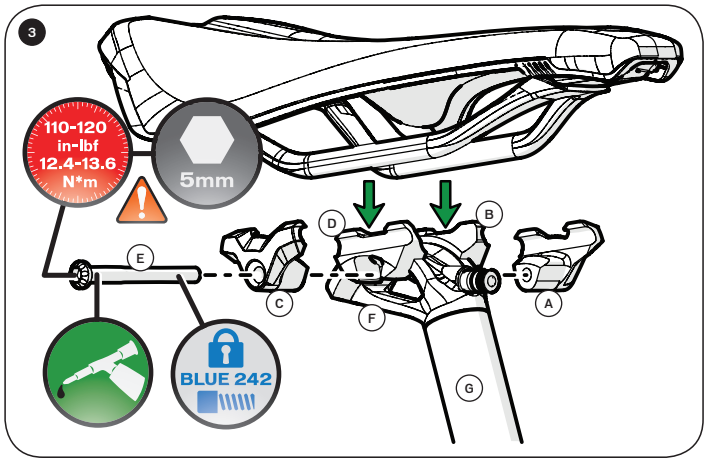
SPECIALIZED BICYCLE COMPONENTS
15130 Concord Circle, Morgan Hill, CA 95037 (408) 779-6229
0000023579_IG R2, 07/13

Please note all instructions and notices are subject to change and updates without notice.
Please visit www.specialized.com for periodic tech updates.
Feedback: techdocs@specialized.com



■ **Fig.1:** The Command Post IR ships in the compressed (Descender; see Fig. 15) position. Depress the plunger lever Ⓐ and carefully allow the Command Post IR to extend to the fully extended (Power) position.





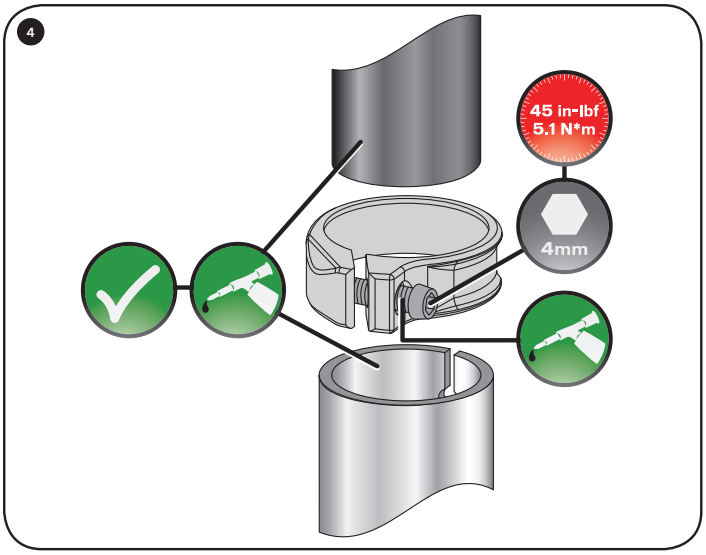
■ **Fig.2:** Command Post IR air pressure is factory set to 20 PSI (1.38 bar). Air pressure determines how fast the post comes up. Do not exceed 25 PSI (1.72 bar). Pressure must be set with the seatpost in the fully extended (Power) position.

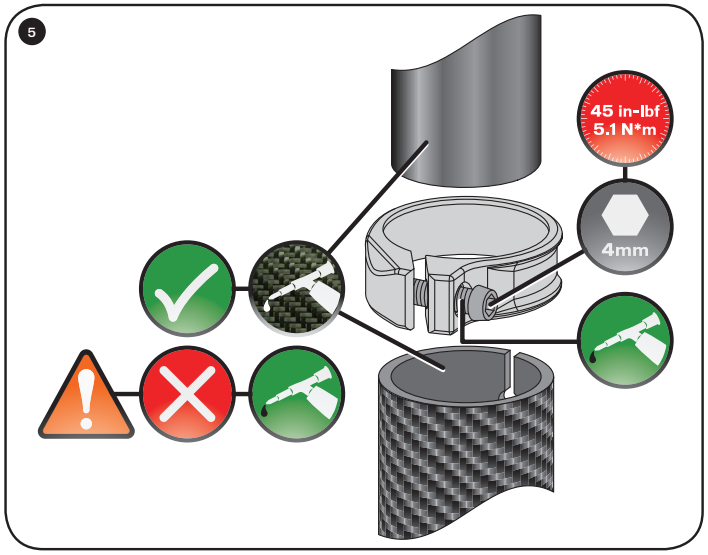
■ **Fig.3:** Place the outboard rail clamps Ⓐ&Ⓒ onto the inboard rail clamps Ⓑ&Ⓓ (the clamps are mated and fit only one way). Apply blue threadlocker (Loctite 242) to the bolt threads and grease to the bolt head area Ⓔ. You do not need to grease the rail clamps, nor saddle head surfaces Ⓕ.

A. Outboard (Threaded) Rail Clamp
B. Inboard Rail Clamp (matches A)
C. Outboard (Pass-thru) Rail Clamp
D. Inboard Rail Clamp (matches C)
E. Bolt
F. "Alien" Saddle Head
G. Seatpost tube

The Saddle head offset is 20mm with the bolt head on the drive-side, 10mm with the bolt head on the non-drive-side.

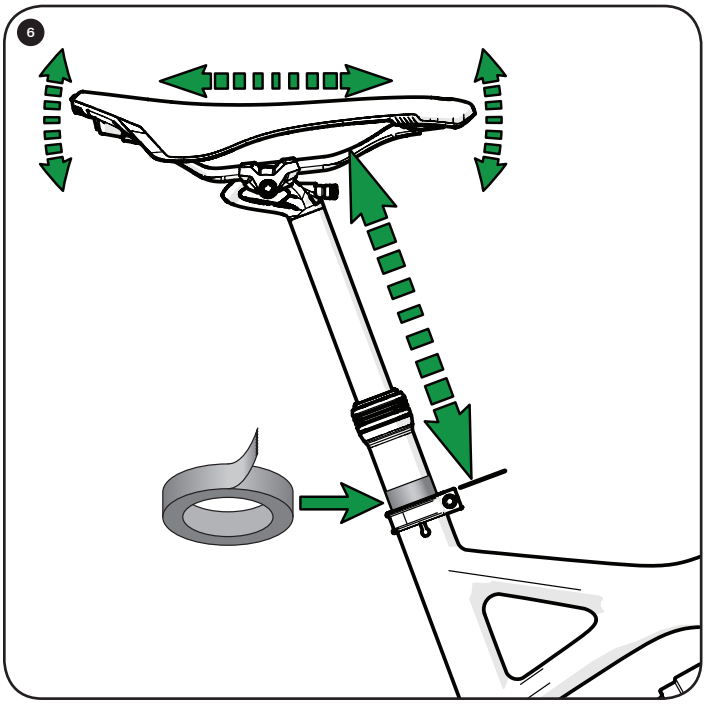
■ **Fig.3:** Insert the bolt Ⓔ through the outboard (pass-thru) rail clamp Ⓒ, screw it into the outboard (threaded) rail clamp Ⓐ just enough to engage. Snap one of the rails on your saddle into the rail clamp. Push the rail clamp on the engaged side to provide slack to the other rail clamp pair. Pivot your saddle and snap the other rail into the rail clamp pair. You should have enough room. If not, you might need to unscrew the bolt.

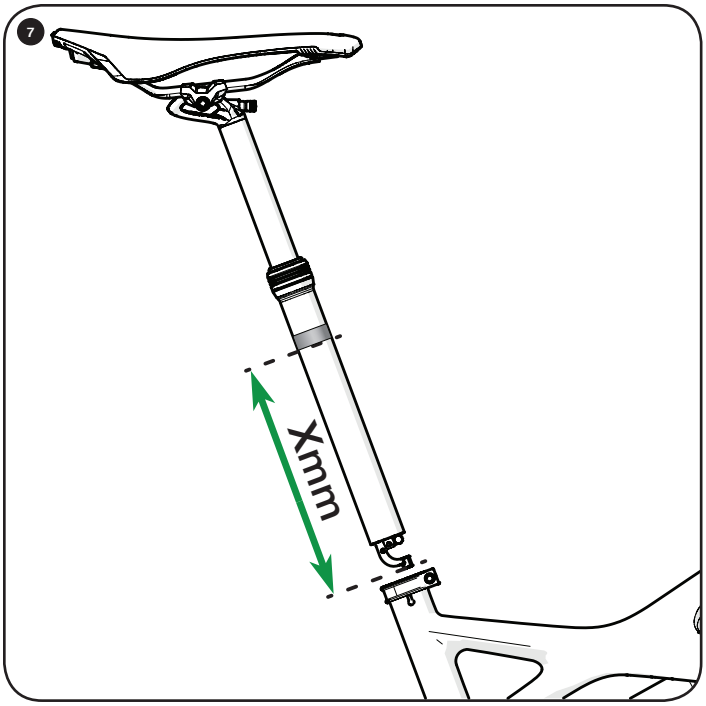




■ **Fig.4: Aluminum frames:** Grease the seat tube I.D. (Inside Diameter) and Command Post IR O.D. (Outside Diameter).

Fig.5: Carbon frames: Do not use grease. Use of friction compound paste on the seat tube I.D. and Command Post IR O.D. is optional.





- **Fig.6:** Insert the Command Post IR into the seat tube. It should slide into the seat tube in a straight and smooth manner, and there should not be any play. If you experience any fit and/or torque issues, have an Authorized Specialized Dealer verify fit tolerances.
- **Fig.6:** With the Command Post IR fully extended, determine saddle height as you would using a standard seatpost, then tighten the seat collar. Once the tilt and fore-aft position have been adjusted, torque the bolt to between 110 - 120 in-lbf (12.4 - 13.6 Nm) (Fig.3).

To minimize dirt contamination from the rear wheel, position the seat collar so that the slot faces forward.

- **Fig.6:** Mark the seatpost with a piece of tape, or take note of the graduation line on the seatpost.
- **Fig.7:** Remove the seatpost and measure the length (X) from the tape mark or graduation line to the base of the cable hanger.

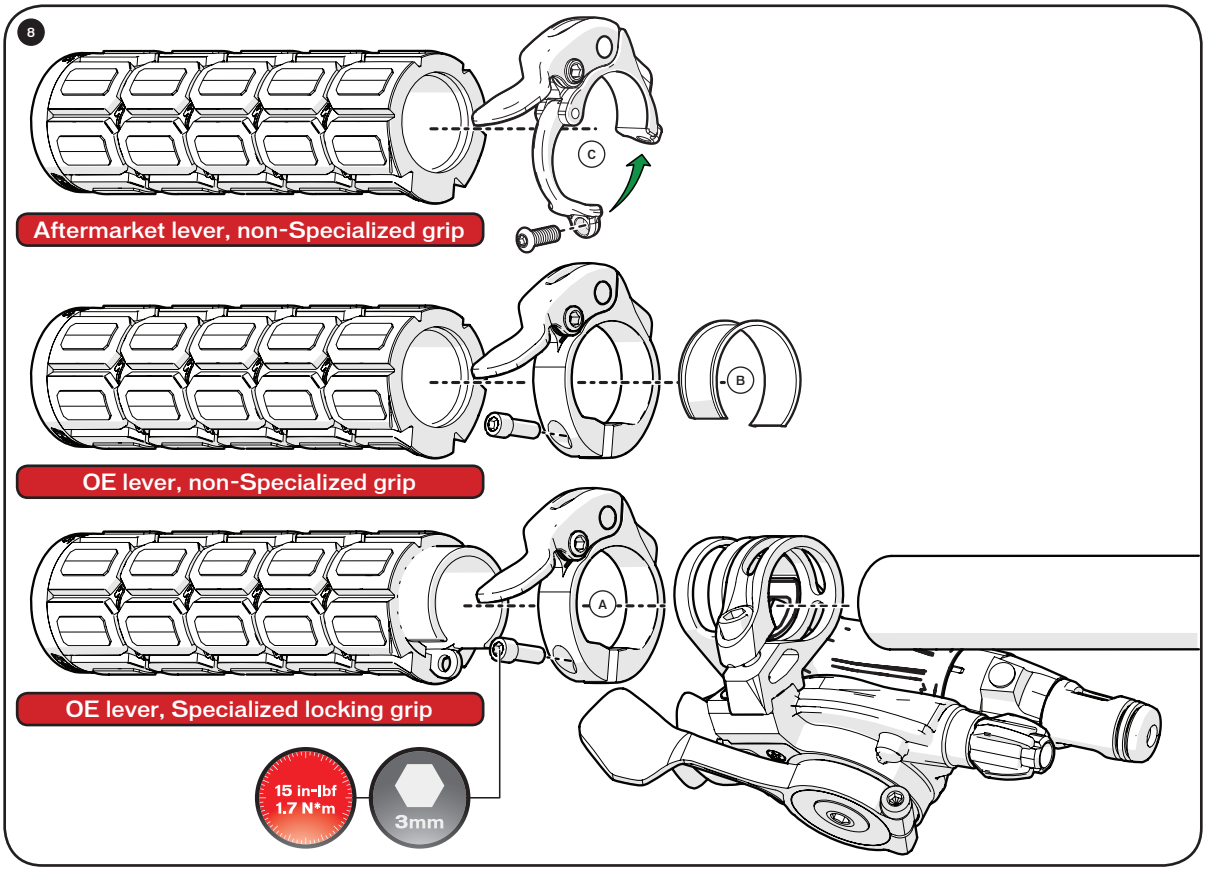
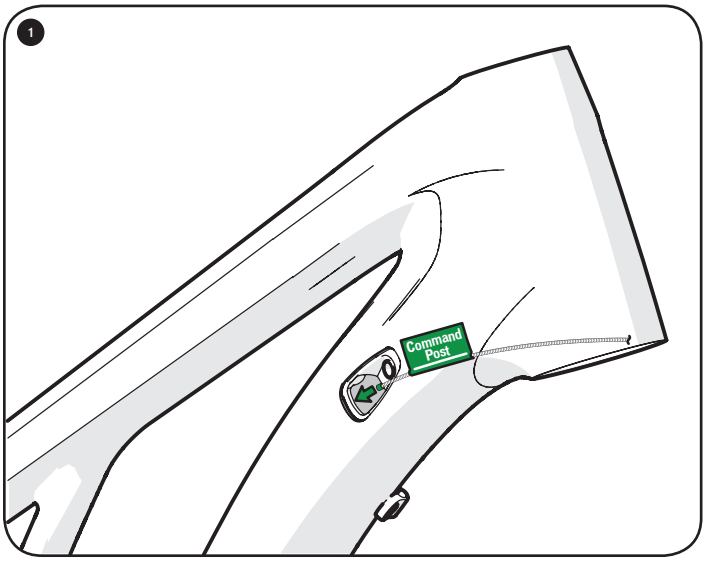
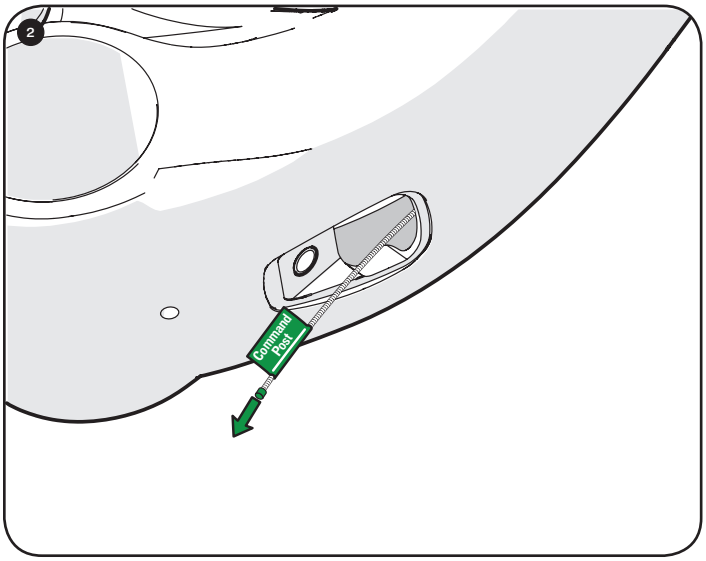


Fig.8: The OE remote lever (A) can be integrated with the Specialized locking grip by replacing the locking clamp on the grip, or mounted separately with any grip by using the supplied shim. The aftermarket lever (available separately) can also be used with non-Specialized grips.

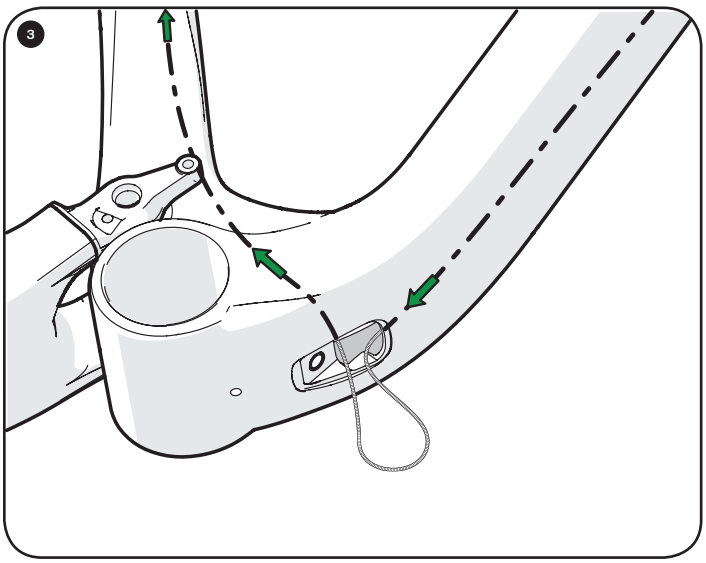
- **Fig.8:** If you are not using a Specialized locking grip, insert the supplied shim (B) inside the lever clamp (collar) before sliding it onto the handlebars. Do not install non-locking grips until the setup is completed.
- **Fig.8:** Loosen the 3mm hex and slide the grip/lever (or lever only) onto the handlebars. Slide on the remote, shifter, and brake levers in the order preferred. The aftermarket lever (C) is hinged and mounts directly to the handlebars.
- **Fig.8: If using Specialized locking grips,** torque the 3mm hex to 15 in-lbf (1.7 Nm).
- Operate the remote lever to ensure it doesn't interfere with other controls on the handlebar. Relocate the lever if necessary.

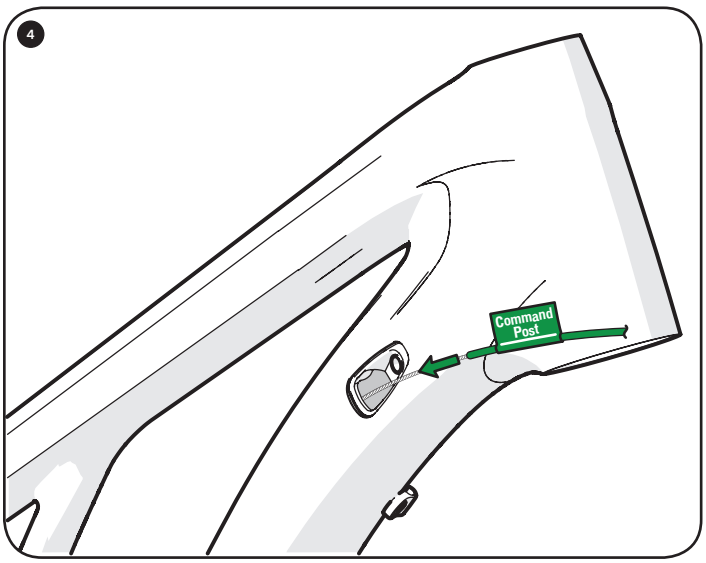
2. INSTALLING HOUSINGS - INTERNAL CABLE ROUTING



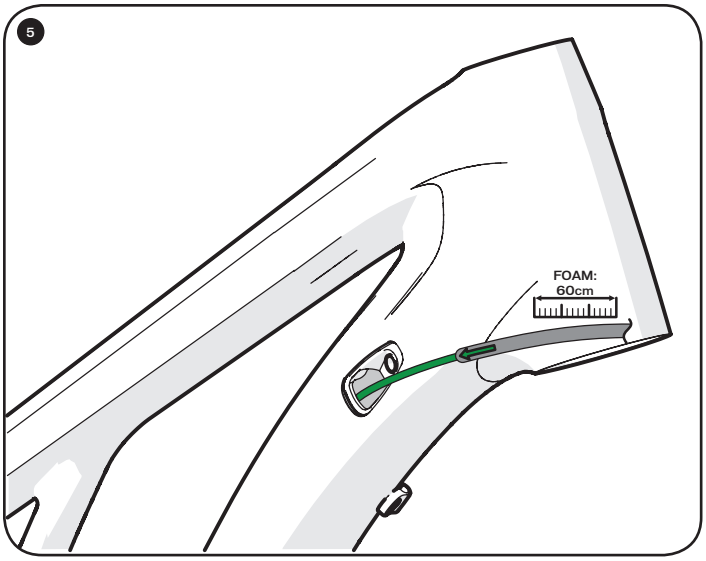


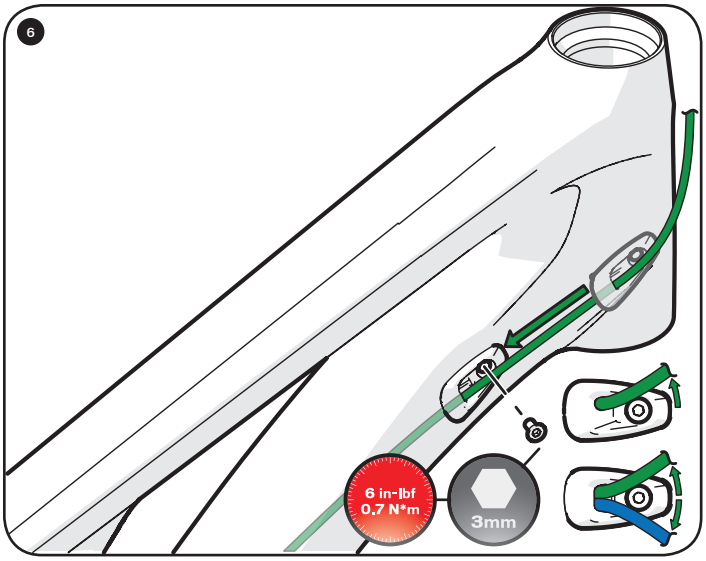
- **Fig.1:** Insert a derailleur cable head-first into the entry port hole and run the cable down the down tube.
- **Fig.2:** Have the cable come out the exit port hole.



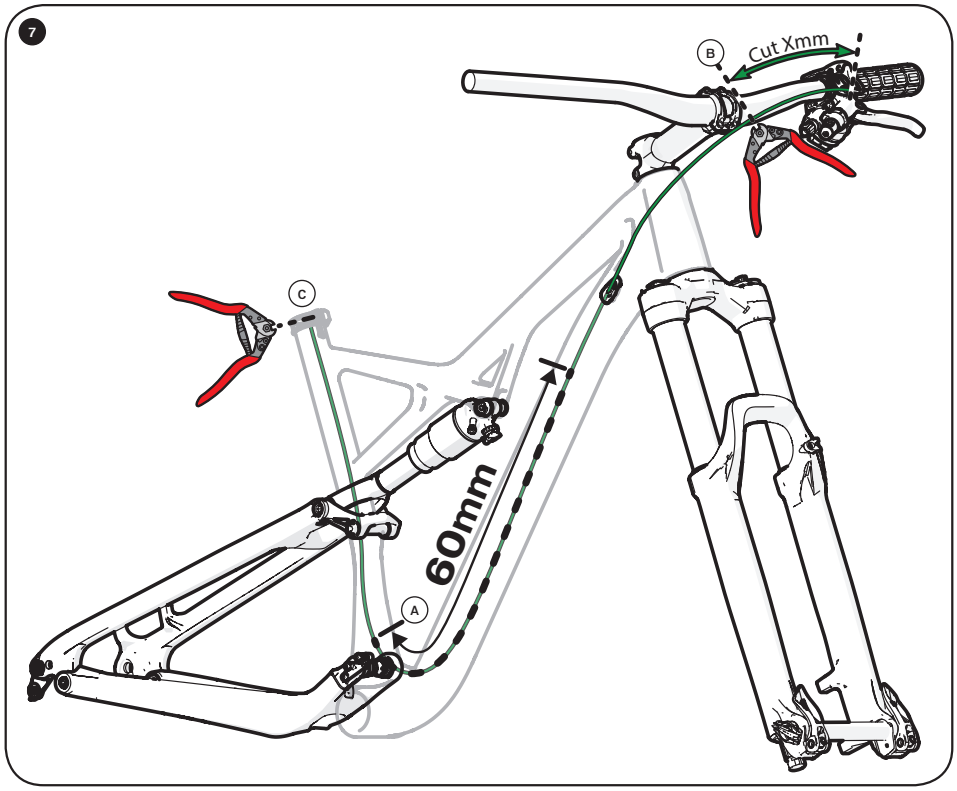


- **Fig.3:** Once the cable has exited the frame at the bottom bracket shell, pull extra cable out until only a few inches of cable are visible at the entry port hole, then tape the few inches of exposed cable to the down tube/head tube.
- **Fig.3:** Run the cable head back in through the exit port hole and run the cable up the seat tube.
- Once the cable exits the top of the seat tube, tape the cable to the outside of the seat tube.
- **Fig.4:** Remove the tape from the portion of cable exposed at the entry port hole, then insert a section of shifter cable housing (1700mm length) over the cable and into the down tube.
- Work the housing over the bottom bracket shell and up the seat tube until it exits at the top of the seat tube.



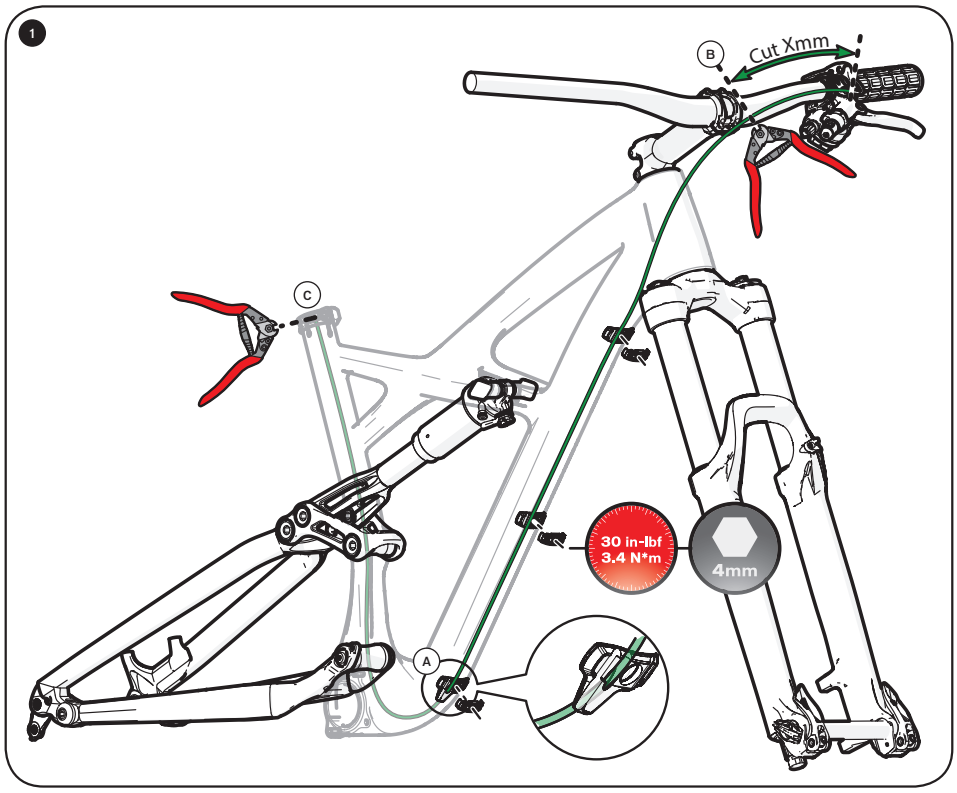


- **Fig.5:** Insert a 60cm section of foam tubing over the cable housing, through the entry port hole. Once it's visible through the exit port hole, help guide the foam tube up over the bottom bracket shell and partially into the seat tube (Section 2, fig.7-A).
- **Fig.6:** If only the Command Post IR cable housing will enter the drive-side hood scoop, install the 4mm single-hole hood scoop over the housing. Specialized recommends crossing the housing(s) to the opposite side(s) for optimum function.
- If additional housings will be installed in the drive-side hood scoop (e.g., front derailleur), only install the hood scoop after the remaining housings have been installed into the frame, before completing the installation steps for the Command Post IR. Please refer to the FSR Owner's Manual for additional information about installing shifter and brake housings.
- **Fig.6:** Once the hood scoop is installed in the entry port hole, flex the housing out of the way and insert a hood scoop bolt into the hood scoop. Tighten to 6 in-lbf (0.7 Nm).



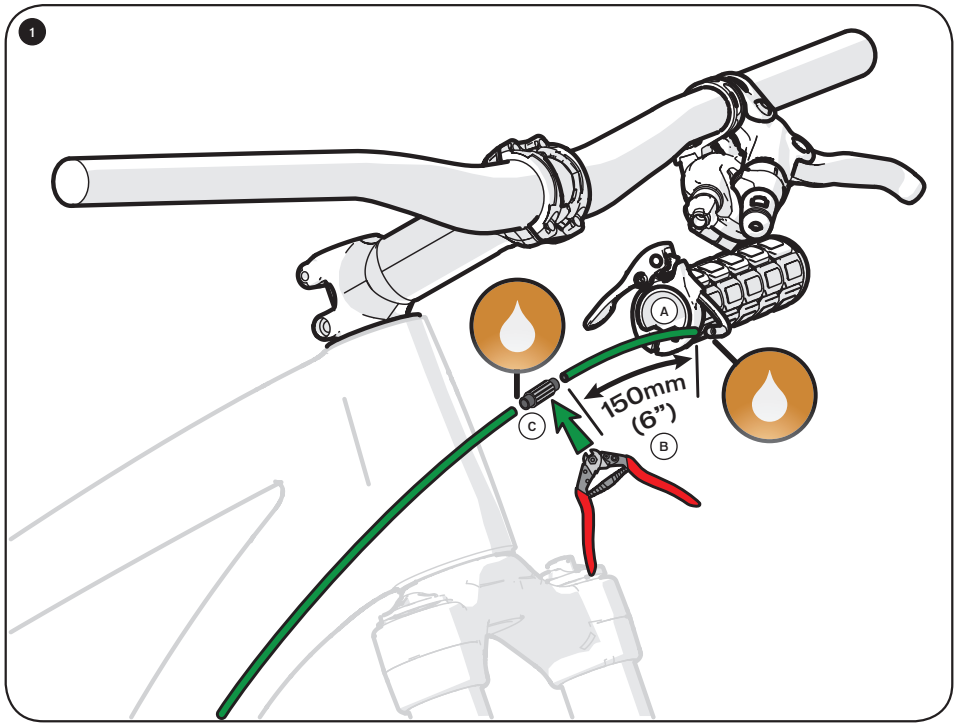
- **Fig.7:** Adjust the housing length (be sure to measure twice and cut once!) so that there is enough slack in the housing to compensate for turning the handlebars to their extreme positions. It is **imperative** that the cable housing is kink-free along its full length. Once the housing position is determined at the handlebar (B), cut the housing so that it's level with the top of the seat tube (C).
- **Fig.7:** Cut off the length of housing that corresponds to Xmm (the distance from the noted seatpost height to the base of the cable hanger, Section 1, Fig.7).

3. INSTALLING HOUSINGS - EXTERNAL DOWN TUBE CABLE ROUTING

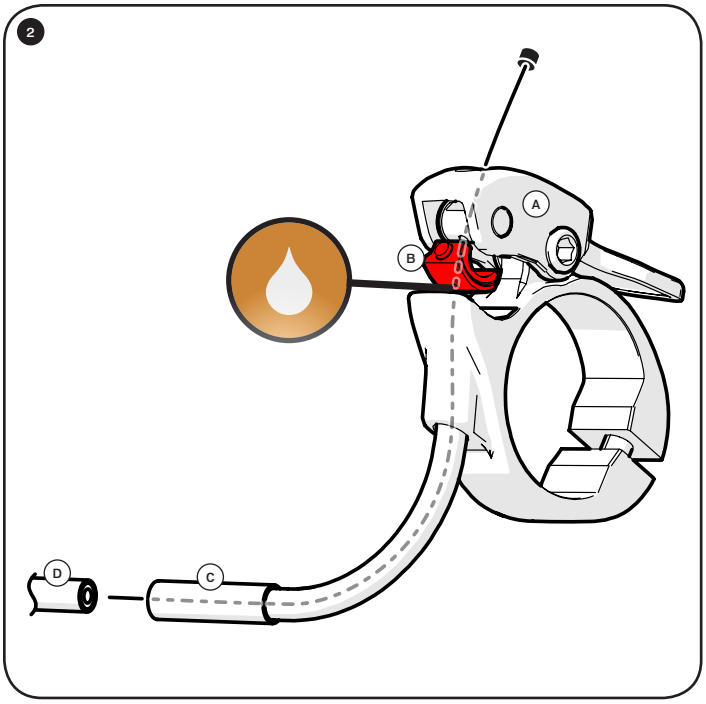


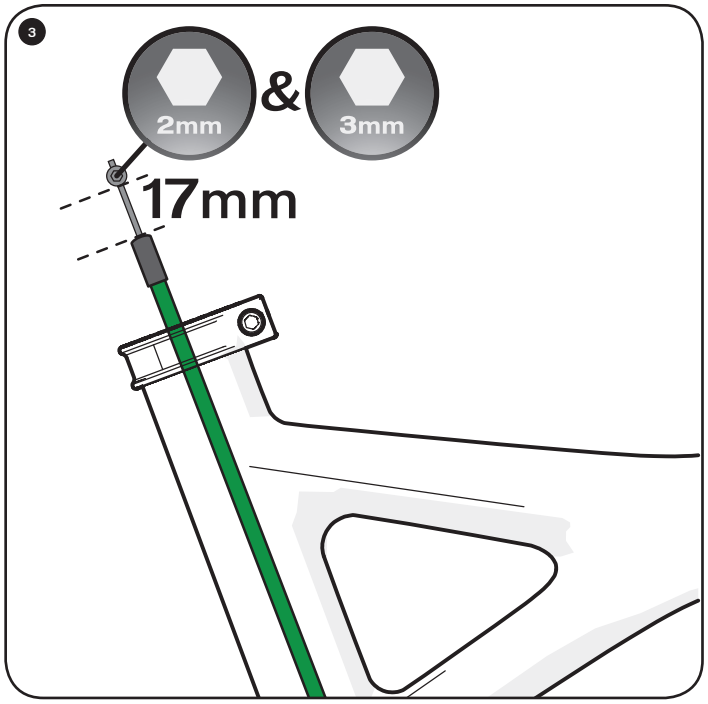
- **Fig.1:** Insert a section of shifter cable housing (1700mm length) through the rubber base and into the hole at the base of the down tube (A), over the top of the bottom bracket and out the top of the seat tube. Put a gradual radius at the leading edge of the cable housing before inserting into the down tube.
- **Fig.1:** Run the housing up the down tube, up to the remote lever and adjust the housing length (be sure to measure twice and cut once!) so that there is enough slack in the housing to compensate for turning the handlebars to their extreme positions (B). It is **imperative** that the cable housing is kink-free along its full length. Once the housing position is determined at the handlebar, cut the housing so that it's level with the top of the seat tube (C).
- **Fig.1:** Cut off the length of housing that corresponds to Xmm (the distance from the noted seatpost height to the base of the cable hanger, Section 1, Fig.7).
- **Fig.1:** Once the cable housing position is set, tighten the down tube cable bats to 30 in-lbf (3.4 Nm).

4. INSTALLING AND ADJUSTING THE CABLE AND SEATPOST

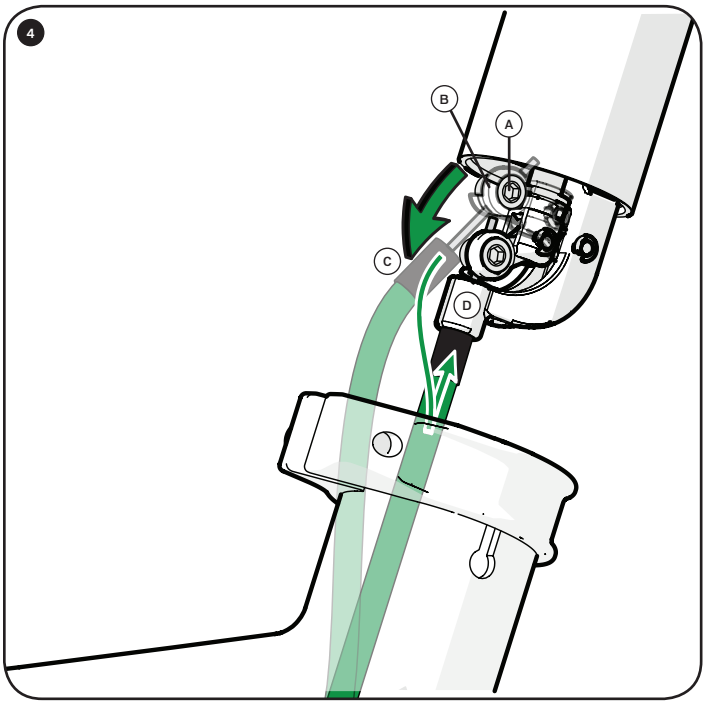


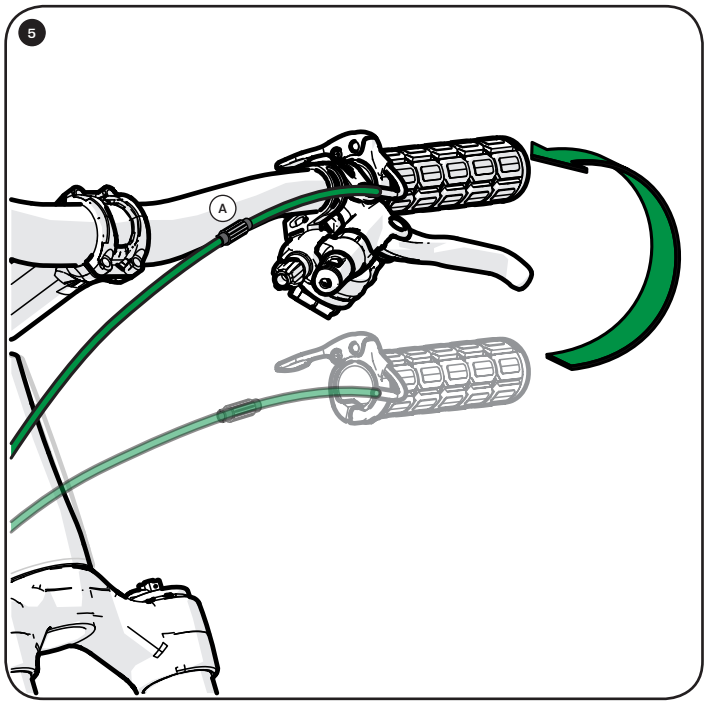
- **Fig.1:** Remove the grip and remote lever (A) from the handlebar. Cut off another 6" (150mm) of housing (B), lubricate the housing entry ports with a thin oil or grease, then insert the barrel adjuster (C) where the cut was made. Fully close the barrel adjuster, then unscrew by one rotation.





- **Fig.2:** Install the shifter cable through the remote lever (A), through the inline lever seal (B) (bump facing out) then through the noodle (C). Once fully installed through the remote lever, run the cable through the housing (D) and barrel adjuster until it exits at the seat collar. Lubricate the cable below the inline lever seal.
- **Fig.3:** Install a cable housing ferrule on the end of the cable housing where it exits the seat tube.
- **Fig.3:** Pull the cable taut, making sure that the housing is fully seated in the barrel adjuster and the remote lever noodle. Install the cable barrel with set screw onto the shifter cable and lightly snug it on the cable so it can still move up and down. Measure 17mm between the top of the ferrule and the underside of the barrel. Tighten the 2mm hex to approximately 10 in-lbf (1.1 Nm), using a 3mm hex on the other side of the barrel for leverage.
- **Fig.3:** Cut off any excess cable with cable cutters, as close to the top of the barrel as possible.





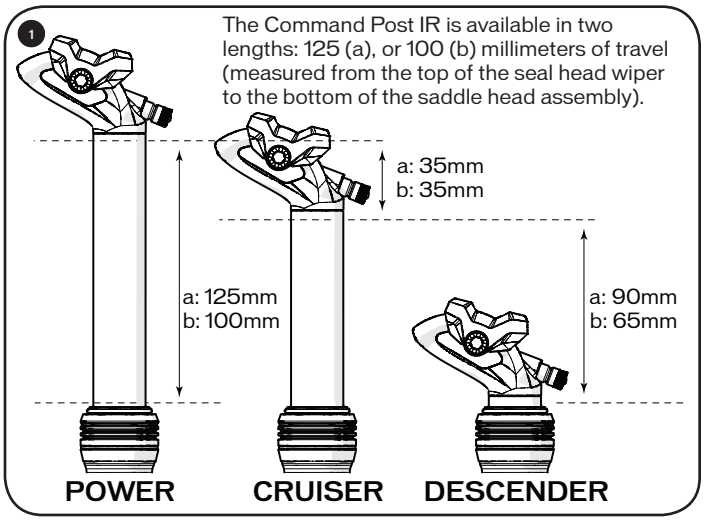
- **Fig.4:** Place the cable barrel (A) into the slot on the plunger lever (B), pull down on the cable housing (C), then slide the ferrule into the slot in the bottom of the cable hanger (D).
- **Fig.5:** There should be a little play to prevent placing tension on the plunger lever; doing so can cause your seatpost to accidentally move positions while riding. Adjust play by using the inline barrel adjuster (A).
- Insert the seatpost into the seat tube, while pulling the housing out of the exit port at the base of the down tube. Lower the seatpost to the previously noted seatpost height, then tighten the Specialized seat collar pinch bolt to 45 in-lbf (5.1 Nm), or tighten the quick-release lever.
- **Fig.5:** Reinstall the grip/lever on the handlebar and reposition all levers in the desired position. Once set, tighten the cable bats on the down tube.
- While weighting the saddle with your elbow/forearm, activate the lever to cycle the Command Post IR up and down through the three positions to ensure that you have the correct desired return speed and that it locks in all three positions. Be careful when extending the post, as it does move quickly. Adjust air pressure, if needed. Refer to the Troubleshooting section on the next page if you encounter any issues.

5. SETUP AND USE

The following collars have been tested for use with the Command Post IR, and are recommended:

- » Specialized fixed and Q/R collars
- » Salsa Flip-Lock Q/Rs

NOTE: Do not overtighten. Use only hand pressure on the Q/R lever. Use only enough tension to keep the post from slipping. Over-tightening can lead to sub-optimal return action.


1
The Command Post IR is available in two lengths: 125 (a), or 100 (b) millimeters of travel (measured from the top of the seal head wiper to the bottom of the saddle head assembly).
a: 35mm
b: 35mm
a: 125mm
b: 100mm
a: 90mm
b: 65mm
POWER
CRUISER
DESCENDER

- The remote lever is used to activate the Command Post IR:
  - » The Command Post IR has three different positions: Descender (fully compressed); Cruiser (center position); and Power (fully extended). See Fig. 1.
  - » To move the saddle down, press the remote lever, and guide the saddle down to the next lower position. If the post proves difficult to move, unweight the saddle slightly while pressing the lever, and then push down using your weight.
  - » To move the saddle up, press the remote lever and, while maintaining contact with the saddle, guide the saddle to the next higher position.
- Store and transport the seatpost in the Descender position to prevent nicks and/or scratches to the inner tube, which can lead to air loss.
- Before performing any service, release the air pressure in the Command Post IR while in the fully extended (Power) position. Make sure the Command Post IR is in the fully extended position when adding air.

NOTE: The working air pressure range for the Command Post IR is 15 to 25 PSI (1.03 to 1.72 bar). If temperatures are above 50°F (10°C), 20 PSI is enough pressure to achieve a proper return rate. If the temperature is below 50°F (10°C), pressure can be raised up to 25 PSI. **Never exceed 25 PSI (1.72 bar).**

MAINTENANCE

Routine maintenance of the Command Post IR is crucial to peak performance. Vigilantly maintain the following service regimen to keep your Command Post IR in tip-top shape:

- **Before every ride:** Gently clean the exposed portion of the inner tube with a rag. Avoid pushing contamination into the seal. Check the inner tube for scratches, nicks, etc. (Visit an Authorized Specialized Dealer if there is any damage to the inner tube.) Make sure the lever action is smooth and that the cable is kink-free. Lubricate the inner tube (Fig.3, item G) if the Command Post IR has been idle for several weeks. Inspect the Command Post IR for any damage that might require warranty service (read the Limited Warranty below). Use it or lose it!
- **Every 3 months:** Use a standard shock pump to check and increase/decrease air pressure to between the 15 – 25 PSI (1.03 – 1.72 bar) range, depending on outside temperature. Lubricate the inner tube and cycle the Command Post IR up and down a few times. Lubricate the actuating cable at both ends. Adjust the inline adjuster barrel as needed so that there is a small amount of slack in the cable (slightly tap the lever to feel the slack; there should be a small amount at the top of lever throw). If ridden in muddy/rainy conditions, lubricate the cable and cable housing with a Teflon-based lubricant (e.g., Tri-Flow®).
- **Every 6 months:** Have your local Authorized Specialized Dealer inspect the Command Post IR. This is important: If any issues are discovered, you are still covered by the Limited Warranty (see below).
- **After 1 year or 150 hours:** Have your local Authorized Specialized Dealer service the Command Post IR. If you ride in extreme conditions (dirt, mud, sand dunes, tundra, Morgan Hill, etc.), you might need to service your Command Post IR sooner. Replace the cable and cable housing, then check functionality. If the Command Post IR becomes inoperable after a cable/cable housing change, see an Authorized Specialized Dealer.

TROUBLESHOOTING

Issue/Symptom	Cause	Solution
Action between positions is sticky	Grease has migrated from sliding surfaces	Apply lubricant to the sliding tube (inner tube) surface and around the seal head then cycle post to re-lube seals
	Lack of grease	Disassemble, clean, then lube internal parts*
	Pressure bleeds through seal over time	Increase air pressure to desired setting / Check inner tube for nicks and/or scratches*
Slow return to the Power position	Pressure bleeds through seal over time	Increase air pressure to desired setting / Check inner tube for nicks and/or scratches*
	Grease has migrated from sliding surfaces	Lubricate the sliding tube (inner tube)
	Post internal parts have been contaminated	Disassemble, clean, then lube internal parts*
	Pressure is set too low	Increase air pressure to workable range
	Seat collar too tight	Loosen tension until seatpost activates properly but seatpost doesn't slip inside frame**
Post does not move when lever is activated	Cable and housing friction	Lubricate or replace cable/cable housing
	Plunger is too low	Reset plunger height*
	Too little cable tension	Increase tension by turning the inline barrel adjuster counter-clockwise (see Fig. 14, item A)
	Seat collar too tight	Loosen tension until seatpost activates properly but seatpost doesn't slip inside frame**
Post moves without activating lever	Cable and housing friction	Lubricate or replace the cable/cable housing
	Plunger is too high	Reset plunger height*
	Too much cable tension	Reduce tension by turning the inline barrel adjuster clockwise (see Fig. 14, item A)
Slow/No return action 2-3 days after setting air pressure	Air leakage due to main seal damage	Replace the seal head assembly*
	Inner tube surface has nicks and/or scratches	Replace the inner tube assembly*
	Grease has migrated from sliding surfaces	Lubricate the inner tube

* To preserve your warranty, this service/procedure must be performed by an Authorized Specialized Dealer.
** If the seat collar is torqued to specification and the seatpost slips in the frame, this may be the result of a fit/compatibility issue. Please consult your Authorized Specialized Dealer for inspection.

WARRANTY

For the complete warranty provisions, please refer to www.specialized.com.

ROCK SHOX®

2014
SUSPENSION FORK OIL, AIR, AND COIL CHARTS

GEN.0000000004392 Rev A

© 2013 SRAM LLC

RockShox Oil Volume Chart

		Drive Side					Non-Drive Side				
			Upper Tube		Lower Leg			Upper Tube		Lower Leg	
Fork	Model	Damper Technology	Volume (mL)	Oil wt	Volume (mL)	Oil wt	Spring Technology	Volume (mL)	Oil wt	Volume (mL)	Oil wt
30 Gold	TK	Turnkey	85	5	5	15	Solo Air	-		10	15
	TK 27 TK 29		105								
Argyle	RCT	Motion Control	143	5	3-8	15	Solo Air	-		3-8	15
	RC		130		10		Coil			30	
	R	Rebound									
BoXXer	World Cup	Motion Control DH	230	5	10	15	Solo Air with Volume Adjust	-		10	15
	R2C2						Coil with Drop Stop			40	
	RC	Motion Control IS	290				Coil				
Domain	Dual Crown RC	Motion Control IS	325	5	10	15	Coil	-		40	15
	Dual Crown R	Rebound	370				Coil U-Turn Coil			30	
	RC	Motion Control	200				Coil U-Turn Coil				
	R	Rebound									
Lyrik	RC2L RC2DH	Mission Control Mission Control DH	184	5	10	15	Dual Position Air Solo Air	-		10	15
	RC	Motion Control IS	187								
	R	Rebound	213				Solo Air Coil				
Pike	RCT3	Charger	Bleed	3	5	0w30	Solo Air	-		15	0w30
	RC										
Reba	RLT, RL	Motion Control	106	5	5	15	Solo Air	Grease		5	15
	RL3		111								
Recon Gold	TK TK29 RL R	Turnkey Rebound Motion Control	133	5	6	15	Solo Air	3	15	6	15
							Coil	-		10	

RockShox Oil Volume Chart

		Drive Side					Non-Drive Side				
			Upper Tube		Lower Leg			Upper Tube		Lower Leg	
Fork	Model	Damper Technology	Volume (mL)	Oil wt	Volume (mL)	Oil wt	Spring Technology	Volume (mL)	Oil wt	Volume (mL)	Oil wt
Recon Silver	TK	Turnkey	150	5	6	15	Solo Air	-		6	15
							Coil			12	
Revelation	WC XXWC XX RCT3 RLT RL	Motion Control	134	5	5	15	Dual Position Air Solo Air	Grease		5	15
SID	WC 1 1/8 XXWC 1 1/8	Motion Control	98	5	5	15	Solo Air	Grease		5	15
	WC XXWC XX RCT3 RLT RL		106								
	RLT3 RL3		111								
Sektor Gold	RL TK	Motion Control Turnkey	130	5	5-8	15	Solo Air	-		3-8	15
			120				U-Turn 130			10-16	15
			125				U-Turn 140				
			125				U-Turn 150				
Sektor Silver	TK	Turnkey	150	5	6	15	Solo Air	-		12	15
XC 32	TK	Turnkey	150	5	6	15	Solo Air	-		6	15
							Coil			12	
XC 30	TK	Turnkey	100	5	5	15	Solo Air Coil	-		10	15
	TK 29		122								
	TK 27		123								
XC 28	80/100	Turnkey	93	5	10	15	Coil	-		-	
	120		109								

RockShox Air Spring Pressures

by Rider Weight

FORK	<140 LBS (<63 KG)	140-160 LBS (63-72 KG)	160-180 LBS (72-81 KG)	180-200 LBS (81-90 KG)	200-220 LBS (90-99 KG)	MAX PSI
30 Gold 80 mm	90-110 psi	110-125 psi	125-140 psi	140-160 psi	175+ psi	265 psi
30 Gold 100-120 mm	50-70 psi	70-85 psi	85-100 psi	100-120 psi	135+ psi	205 psi
Argyle	120-135 psi	135-150 psi	150-165 psi	165-180 psi	180+ psi	220 psi
BoXXer	30-45 psi	45-60 psi	60-75 psi	75-90 psi	90-105 psi	165 psi
Lyrik	45-55 psi	55-65 psi	65-75 psi	75-85 psi	85-95 psi	148 psi
Lyrik Dual Position Air	45-65 psi	65-85 psi	85-105 psi	105-125 psi	125-145 psi	248 psi
Pike	45-55 psi	55-65 psi	65-75 psi	75-85 psi	85-95 psi	148 psi
Pike 29 120-140 mm	55-65 psi	65-75 psi	75-85 psi	85-95 psi	95-105 psi	163 psi
Pike Dual Position Air	45-65 psi	65-85 psi	85-105 psi	105-125 psi	125-145 psi	248 psi
Reba	70-90 psi	90-105 psi	105-120 psi	120-135 psi	135+ psi	200 psi
Recon Gold 80 mm	90-110 psi	110-125 psi	125-140 psi	140-160 psi	175+ psi	265 psi
Recon Gold 100-120 mm	50-70 psi	70-85 psi	85-100 psi	100-120 psi	135+ psi	205 psi
Recon Silver 80 mm	90-110 psi	110-125 psi	125-140 psi	140-160 psi	175+ psi	265 psi
Recon Silver 100-120 mm	50-70 psi	70-85 psi	85-100 psi	100-120 psi	135+ psi	205 psi
Revelation	65-85 psi	75-100 psi	85-115 psi	95-125 psi	125+ psi	220 psi
Revelation Dual Position Air	<110 psi	110-125 psi	125-140 psi	140-155 psi	155-170 psi	255 psi
Sektor Gold	40-60 psi	60-75 psi	75-90 psi	90-105 psi	105+ psi	225 psi
Sektor Silver	50-70 psi	70-85 psi	85-100 psi	100-120 psi	120+ psi	200 psi
SID	70-90 psi	90-105 psi	105-120 psi	120-135 psi	135+ psi	200 psi
XC32 80 mm	90-110 psi	110-125 psi	125-140 psi	140-160 psi	175+ psi	265 psi
XC32 100-120 mm	50-70 psi	70-85 psi	85-100 psi	100-120 psi	135+ psi	205 psi
XC30 80 mm	90-110 psi	110-125 psi	125-140 psi	140-160 psi	175+ psi	265 psi
XC30 100-120 mm	50-70 psi	70-85 psi	85-100 psi	100-120 psi	135+ psi	205 psi

RockShox Coil Springs

by Rider Weight

FORK	<140 LBS (<63 KG)	140-160 LBS (63-72 KG)	160-180 LBS (72-81 KG)	180-200 LBS (81-90 KG)	200-220 LBS (90-99 KG)
Argyle	Red Medium	Blue Firm	Black X-Firm	Not Available	Pink XXX-Firm
BoXXer	Silver X-Soft	Yellow Firm	Red Medium	Blue Firm	Black X-Firm
Domain					
Lyrik					
Recon Silver	Silver X-Soft	Yellow Firm	Red Medium	Blue Firm	Black X-Firm
Recon Gold					
Sektor					
XC 28 80 / 100 mm	Green X-Soft	Black Soft	Yellow Medium	Red Firm	Blue X-Firm
XC 28 120 mm	Silver X-Soft	Yellow Firm	Red Medium	Blue Firm	Black X-Firm
XC30					
XC32					

ROCK SHOX

SUSPENSION FORK

PIKE

User Manual

SRAM LLC WARRANTY

EXTENT OF LIMITED WARRANTY

Except as otherwise set forth herein, SRAM warrants its products to be free from defects in materials or workmanship for a period of two years after original purchase. This warranty only applies to the original owner and is not transferable. Claims under this warranty must be made through the retailer where the bicycle or the SRAM component was purchased. Original proof of purchase is required. **Except as described herein, SRAM makes no other warranties, guaranties, or representations of any type (express or implied), and all warranties (including any implied warranties of reasonable care, merchantability, or fitness for a particular purpose) are hereby disclaimed.**

LOCAL LAW

This warranty statement gives the customer specific legal rights. The customer may also have other rights which vary from state to state (USA), from province to province (Canada), and from country to country elsewhere in the world.

To the extent that this warranty statement is inconsistent with the local law, this warranty shall be deemed modified to be consistent with such law, under such local law, certain disclaimers and limitations of this warranty statement may apply to the customer. For example, some states in the United States of America, as well as some governments outside of the United States (including provinces in Canada) may:

a. Preclude the disclaimers and limitations of this warranty statement from limiting the statutory rights of the consumer
(e.g. United Kingdom).

b. Otherwise restrict the ability of a manufacturer to enforce such disclaimers or limitations.

For Australian customers:
This SRAM limited warranty is provided in Australia by SRAM LLC, 133 North Kingsbury, 4th floor, Chicago, Illinois, 60642, USA. To make a warranty claim please contact the retailer from whom you purchased this SRAM product. Alternatively, you may make a claim by contacting SRAM Australia, 6 Marco Court, Rowville 3178, Australia. For valid claims SRAM will, at its option, either repair or replace your SRAM product. Any expenses incurred in making the warranty claim are your responsibility. The benefits given by this warranty are additional to other rights and remedies that you may have under laws relating to our products. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

LIMITATIONS OF LIABILITY

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event shall SRAM or its third party suppliers be liable for direct, indirect, special, incidental, or consequential damages.

LIMITATIONS OF WARRANTY

This warranty does not apply to products that have been incorrectly installed and/or adjusted according to the respective SRAM user manual. The SRAM user manuals can be found online at sram.com, rockshox.com, avidbike.com, truvativ.com, or zipp.com.

This warranty does not apply to damage to the product caused by a crash, impact, abuse of the product, non-compliance with manufacturers specifications of usage or any other circumstances in which the product has been subjected to forces or loads beyond its design.

This warranty does not apply when the product has been modified, including, but not limited to any attempt to open or repair any electronic and electronic related components, including the motor, controller, battery packs, wiring harnesses, switches, and chargers.

This warranty does not apply when the serial number or production code has been deliberately altered, defaced or removed.

This warranty does not apply to normal wear and tear. Wear and tear parts are subject to damage as a result of normal use, failure to service according to SRAM recommendations and/or riding or installation in conditions or applications other than recommended.

Wear and tear parts are identified as:

- Dust seals
- Bushings
- Air sealing o-rings
- Glide rings
- Rubber moving parts
- Foam rings
- Rear shock mounting hardware and main seals
- Upper tubes (stanchions)
- Stripped threads/bolts (aluminium, titanium, magnesium or steel)
- Brake sleeves
- Brake pads
- Chains
- Sprockets
- Cassettes
- Shifter and brake cables (inner and outer)
- Handlebar grips
- Shifter grips
- Jockey wheels
- Disc brake rotors
- Wheel braking surfaces
- Bottomout pads
- Bearings
- Bearing races
- Pawls
- Transmission gears
- Spokes
- Free hubs
- Aero bar pads
- Corrosion
- Tools
- Motors
- Batteries

Notwithstanding anything else set forth herein, the battery pack and charger warranty does not include damage from power surges, use of improper charger, improper maintenance, or such other misuse.

This warranty shall not cover damages caused by the use of parts of different manufacturers.

This warranty shall not cover damages caused by the use of parts that are not compatible, suitable and/or authorised by SRAM for use with SRAM components.

This warranty shall not cover damages resulting from commercial (rental) use.

SAFETY INSTRUCTIONS

- It is extremely important that your RockShox® suspension fork (fork) is installed correctly by a qualified bicycle mechanic. Improperly installed forks are extremely dangerous and can result in severe and/or fatal injuries.
- The fork on your bicycle is designed for use by a single rider, on mountain trails, and similar off-road conditions.
- Before riding your bicycle, be sure the brakes are properly installed and adjusted. Use your brakes carefully and learn your brakes' characteristics by practicing your braking technique in non-emergency circumstances. Hard braking or improper use of the front brake can cause you to fall. If the brakes are out of adjustment, improperly installed or are not used properly, the rider could suffer serious and/or fatal injuries.
- Your fork may fail in certain circumstances, including, but not limited to, any condition that causes a loss of oil; collision or other activity bending or breaking the fork's components or parts; and extended periods of non-use. Fork failure may not be visible. Do not ride your bicycle if you notice bent or broken fork parts, loss of oil, sounds of excessive topping out, or other indications of a possible fork failure, such as loss of shock absorbing properties. Instead, take your bike to a qualified dealer for inspection and repair. In the event of a fork failure, damage to the bicycle or personal injury may result.
- Always use genuine RockShox parts. Use of aftermarket replacement parts voids the warranty and could cause structural failure to the fork. Structural failure could result in loss of control of the bicycle with possible serious and/or fatal injuries.
- Use extreme caution not to tilt the bicycle to either side when mounting the bicycle to a carrier by the fork drop-outs (front wheel removed). The fork legs may suffer structural damage if the bicycle is tilted while the drop-outs are in the carrier. Make sure the fork is securely fastened according to the bike carrier's instructions. Make sure the rear wheel is fastened down when using ANY bike carrier that secures the fork's drop-outs. Not securing the rear can allow the bike's mass to side-load the drop-outs, causing them to break or crack. If the bicycle tilts or falls out of its carrier, do not ride the bicycle until the fork is properly examined for possible damage. Return the fork to your dealer for inspection or call RockShox if there is any question of possible damage. The International Distributor List is available on-line at www.sram.com. A fork leg or drop-out failure could result in loss of control of the bicycle with possible serious and/or fatal injuries.
- **Forks designed for use with disc-style brakes:** follow the brake manufacturer's installation instructions for proper installation and mounting of the brake caliper. For forks using a post style disc brake mount, ensure that your brake caliper mounting bolts have 9-12 mm of thread engagement and are torqued to 90 in-lb (10.2 N·m) when installed on the fork. Failure to have proper thread engagement can damage the brake mounting posts, which can result in severe injury and/or death.
- Your RockShox fork is designed to secure a front wheel using a quick release thru axle. Be sure you understand which axle your bike has and how to properly operate it. Do not use a bolt on axle. An improperly installed wheel can allow the wheel to move or disengage from the bicycle, causing damage to the bicycle and serious injury and/or death to the rider.
- Observe all instructions for care and service of this product.

ROCKSHOX FORKS DO NOT COME WITH THE REFLECTORS REQUIRED BY FEDERAL LAW FOR NEW BICYCLES, 16 CFR §1512.16. ADDITIONAL REQUIREMENTS FOR REFLECTORS AND LIGHTING MAY EXIST AND VARY BY LOCATION. YOUR DEALER SHOULD INSTALL PROPER REFLECTORS AND LIGHTING SYSTEMS TO MEET ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. ALWAYS USE FRONT AND REAR LIGHTS IN ADDITION TO REFLECTORS IF RIDING AT NIGHT OR IN REDUCED VISIBILITY.

Thanks for Choosing RockShox®

We are excited, pleased, and honored that you have chosen RockShox for your bicycle suspension. You can feel confident that your suspension is the best in the market today because RockShox products are developed and engineered by people who love to ride and who are as passionate about performance as you.

This manual contains the important safety, maintenance, and warranty information you need in order to safely install and use your RockShox suspension. To ensure that your RockShox suspension performs properly, we recommend that you have it installed by a qualified bicycle mechanic.

Additional detailed set-up, tuning, and service information for your RockShox suspension is available online at www.sram.com.

Suspension Fork Installation

Remove the existing fork from the bicycle. Measure the RockShox steerer tube against the length of the existing one as you may need to cut the RockShox steerer tube. If your RockShox fork has a tapered steerer tube, be sure to leave enough steerer above the taper in order to clamp the stem. Prior to cutting, consult your stem manufacturer's instructions to determine the length of steerer tube required to clamp the stem.

Remove the crown race from the existing fork and install it firmly against the RockShox crown. Use a 39.8 mm crown race for 1 1/2" steerer tubes and a 29.9 mm crown race for 1 1/8" steerer tubes**.**

⚠ WARNING

Improperly installed forks are extremely dangerous and can result in severe and/or fatal injuries.

Do not add threads to RockShox steerers. The steerer tube crown assembly is a one-time press fit. Replacement of the assembly must be done to change the length or diameter of the steerer tube.

Do not remove or replace the steerer tube. This could result in the loss of control of the bicycle with possible serious and/or fatal injuries.

Aluminum Crown-Steerer

1. Mark the steerer tube and cut to the proper length.
2. Install a star nut or headset compression device into the steerer tube.
3. Install the fork onto the bike.
4. Install your stem according to the manufacturer's instructions and adjust the headset until you feel no play or drag.

Brakes

Install your brakes according to the manufacturer's instructions and adjust the brake pads properly. Use only disc style brakes on the provided disc mounting holes.

NOTICE

Do not let brake or derailleur cables rest on, or be attached to the crown. Abrasion over time may cause damage to the crown. If contact is unavoidable, use tape or similar protection to cover the surface. Crown abrasion is not covered under warranty.

Wheel Installation

Check tire clearance whenever you change tires. To do this, remove the air pressure or coil spring from the fork, then compress the fork completely and ensure there is at least 6 mm of clearance between the top of the inflated tire and the bottom of the crown.

For complete instructions, refer to the RockShox Service Manual at www.sram.com.

⚠ WARNING

Failure to leave 6 mm clearance between the top of the inflated tire and the bottom of the crown will cause the tire to jam against the crown when the fork is fully compressed which can result in severe and/or fatal injuries.

Riding with an improperly installed wheel can allow the wheel to move or disengage from the bicycle, causing damage to the bicycle, and serious injury or death to the rider. It is essential that you:

- Ensure that your axle, dropouts, and quick release mechanisms are clean and free of dirt or debris. Always check and clean this area when reinstalling the wheel. Accumulated dirt and debris can compromise the security of the axle, leading to serious and/or fatal injury.
- Ask your dealer to help you understand how to properly secure your front wheel using the Maxle quick release thru axle system.
- Apply the correct techniques when installing your front wheel.
- Never ride your bicycle unless you are sure the front wheel is installed properly and secure.

Maxle™ Quick Release Thru Axle System

The axle threads into the non-drive side fork drop out and compresses the hub between the non-drive and drive side fork legs. The axle is fixed in place in the lower leg by the Maxle quick release lever.

Position your wheel in the lower leg drop outs. The hub should seat firmly in the drop outs. Be sure to position the disc brake rotor in the caliper. Verify that the rotor, hub, and rotor bolts do not interfere with the lower fork legs. If you are unfamiliar with adjusting your disc brakes, see your brake manufacturer's instructions.

NOTICE

Never use any other tool to tighten the axle into the lower fork leg. Over-tightening of the axle can damage the axle and/or the lower fork leg.

⚠ WARNING

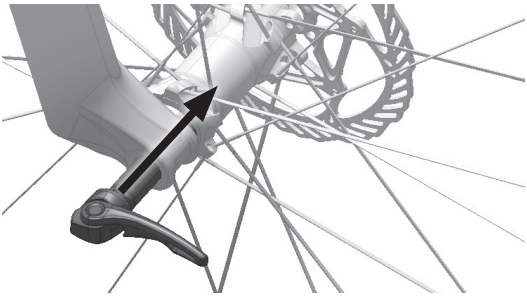
After closing the Maxle quick release lever, do not reposition or spin the lever. Repositioning or spinning the Maxle lever can cause the axle to come loose, compromising the security of the axle which can lead to serious injury and/or death.

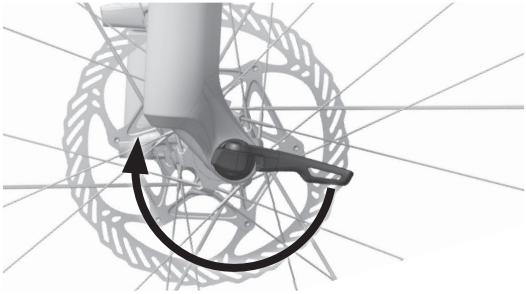
Installation

1 Open the Maxle™ lever. Ensure the lever rests against the hard stop.

2 Slide the Maxle through the drive side fork leg drop out until it engages the threads of the non-drive side drop out.

3 To tighten the Maxle into the drop out, turn the lever clockwise until there is a small gap between the lever head and drop out.

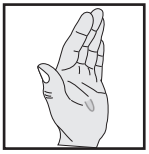


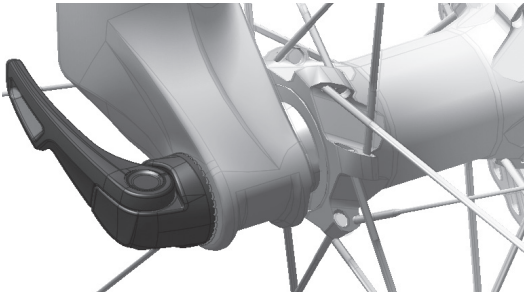


Secure

1 Close the Maxle™ lever. Lever tension is sufficient if the lever leaves an imprint on your hand.

2 To increase lever tension, open the lever and turn it clockwise. Close the lever to recheck lever tension. Repeat until the tension is sufficient, then close the lever. When the lever is closed, verify there is no gap between the lever head and dropout.

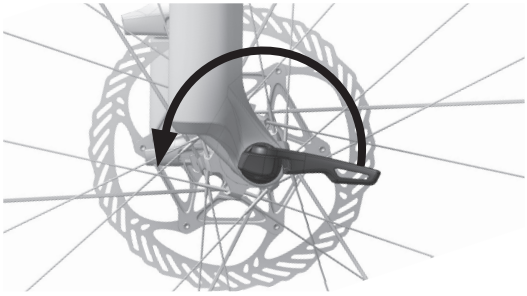


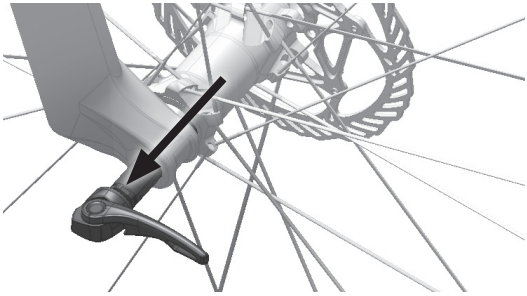


Remove

1 Open the Maxle lever.

2 Turn the lever counter-clockwise until the Maxle is disengaged from the threads on the fork drop out, then slide the Maxle out of the hub.



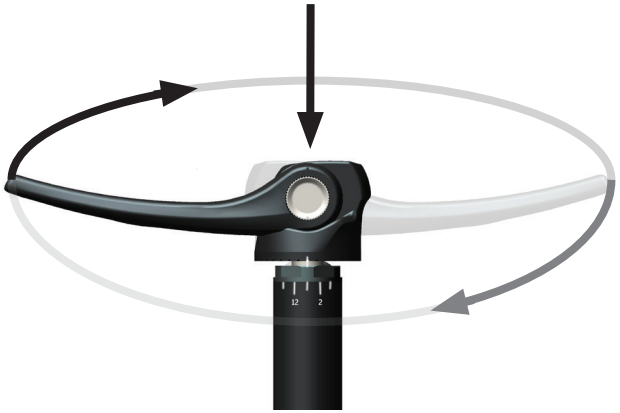


Position

1 To change the direction of the Maxle™ lever when it is in the closed position, first remove the Maxle from the fork leg drop out.

2 With the Maxle lever in the open position, place the flat end of the Maxle vertically on a hard surface. Use the palm of your hand to push the lever head in to compress the spring inside the Maxle. While the spring is compressed, rotate the lever head to the desired position using the numbered lines on the Maxle as a reference.

3 Install, tighten, and secure the Maxle into the lower fork leg. Repeat until your desired closed lever position is achieved.



Maintenance

We recommend any service be performed by a qualified bicycle mechanic. To obtain service information or instructions, visit our website at www.sram.com or contact your local RockShox dealer or distributor.

Take your bicycle to a qualified dealer for inspection and repair if there is any question of component integrity due to a crash or other direct impact.

⚠ WARNING

Before disassembly or service of any air system remove the air pressure from all air chambers. For complete service instructions visit www.sram.com/service.

To maintain the high performance, safety, and long life of your front suspension, it is required that you periodically check the fastener torque values for compliance as well as perform routine maintenance on your fork. If you ride in extreme conditions, torque compliance checks and maintenance should be performed more frequently.

FRONT SUSPENSION FASTENER	TORQUE VALUE
Top Caps	13.6 N•m (120 in-lb) Non-drive side 28.2 N•m (250 in-lb) drive side
Bottom Bolt	7.3 N•m (65 in-lb)
Disc Brake Mounting Bolts	10.2 N•m (90 in-lb)

MAINTENANCE	INTERVAL (hours)
Clean dirt and debris from upper tubes	Every ride
Check air pressure (air forks only)	Every ride
Inspect upper tubes for scratches	Every ride
Lubricate dust seals and upper tubes	Every ride
Check front suspension fasteners for proper torque	25
Remove lowers, clean/inspect bushings and change oil bath	50
Clean and lubricate air spring assembly	100
Change oil in damping system (including hydraulic lockout)	100

95-4018-000-000 Rev C ©2013 SRAM LLC

Ride on open trails only
Leave no trace
Control your bicycle
Always yield trail
Never spook animals
Plan ahead

WORLD HEADQUARTERS
SRAM, LLC
1333 N. Kingsbury, 4th Floor
Chicago Illinois 60642
United States of America

ASIAN HEADQUARTERS
SRAM LLC Taiwan
No. 1598-8 Chung Shan Road
Shen Kang Hsiang, Taichung
County 429 Taiwan R.O.C

EUROPEAN HEADQUARTERS
SRAM LLC Europe
Paasbosweg 14-16
3862ZS Nijkerk
The Nederlands